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AN ANALYSIS OF CARBON DIOXIDE IN THE ARCTIC ATMOSPHERE NEAR BARROW, ALASKA 1961 TO 1967

by

JOHN J. KELLEY, JR.



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Final Report

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John J. Kelley, Jr.

University of Washington

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The North Meadow Lake Research Field Station near Barrow, Alaska, August 1965.

ABSTRACT

The results of the measurements of carbon dioxide in air at Barrow, Alaska, are presented. Reference gas comparison data are tabulated, and methods of calculations are discussed. The average daily concentrations of atmospheric carbon dioxide are tabulated for the period 10 July 1961 to 15 September 1967. The diurnal variations of carbon dioxide during this period are also presented.

TABLE OF CONTENTS

		Page
List	of Figures	i
List	of Tables	111
Prefa	ace	1
1	Introduction	2
11	Reference Gas Comparisons	2
III	Recorder Scale Factors	5
	A. Definition	5
	B. Standard Computation for Three Mutually Compared Tanks	5
	C. Determination of Index Differences	6
	D. Weighted Average Recorder Scale Factors	7
1	Summary of Recorder Scale Factors	7
	V Index Values of Reference Gases	8
v	Combined Scripps and Barrow Index Values of Working Reference Gases	
VI	I Comparison of Scripps and Barrow Index Values of Working Reference Gases	9
VII		10
•	A. Computation of Index Values	10
	R Manametric Concentration Scale	11

		Page
IX	Monthly Average Index of Carbon Dioxide	12
х	Monthly Average Index of Carbon	
	Dioxide, Manometric Concentration	
	Scale	12
XI	Twelve Month Running Mean Concentration	
	of Carbon Dioxide	12
XII	Values of Table 9 and 9a Referred	
	to a Constant Datum	13
XIII	The Diurnal Variation of CO ₂	14
Table	s	15
Refer	ences	163
		103
Appen	dix 1	164
Appen	dix 2	166

LIST OF FIGURES

- Figure 1 Map of Point Barrow vicinity showing the atmospheric chemistry site near the ocean beach and the North Meadow Lake field station.
- Figure 2 Mutual Comparison Method for Tank Standardization.
- Figure 3 Recorder Scale Factors (RSF's) Adjusted to Standard
 Barometric Pressure Versus Calendar Dates, Period
 1-11, Arctic Ocean Beach Site.
- Figure 4 Recorder Scale Factors (RSF's) Adjusted to Standard
 Barometric Pressure Versus Calendar Dates, Period
 13-14, Arctic Ocean Beach Site.
- Figure 5 Recorder Scale Factors (RSF's) Adjusted to Standard
 Barometric Pressure Versus Calendar Dates, Period 15,
 Arctic Ocean Beach Site.
- Figure 6 Recorder Scale Factors (RSF's) Adjusted to Standard
 Barometric Pressure Versus Calendar Dates, Period
 1-4, North Meadow Lake.
- Figure 7 Recorder Scale Factors (RSF's) Adjusted to Standard
 Barometric Pressure Versus Calendar Lates, Period
 4-10, North Meadow Lake.

- Figure 8 Recorder Scale Factors (RSF's) Adjusted to
 Standard Barometric Pressure Versus Calendar
 Dates, Period 10-17, North Meadow Lake.
- Figure 9 Differences Between Index Values (ppm) Obtained from Measurements at Barrow and Scripps, 1961-1963.
- Figure 10 Differences Between Index Values (npm) Obtained from Measurements at North Meadow Lake and Scripps, 1965-1967.
- Figure 11. Daily Average Concentration of CO_2 1961-1963.
- Figure 12 Daily Average Concentration of CO₂ 1965-1967.
- Figure 13 Twelve-Month Running Mean of the Concentration of Atmospheric CO₂ Near Barrow, Alaska.
- Figure 14 Monthly Average Concentration of CO₂ Mear Barrow,

 Alaska Peferred to a Constant Datum (January 1960).
- Figure 15 Average Diurnal Variation of CO_2 Year Barrow, Alaska, 1961-1967.

LIST OF TABLES

Table 1	Reference Gas Comparisons - Barrov
Table la	Reference Cas Comparisons - University of Washington
Table 2	Recorder Scale Factors - Barrow, Alaska
Table 2a	Recorder Scale Factors - University of Washington
Table 3	Summary of Recorder Scale Factors, 1961-1963
Table 3a	Summary of Recorder Scale Factors - Mutual
	Comparison Method, 1962-1963
Table 3b	Summary of Pecorder Scale Factors - Mutual
	Comparison Method, 1965-1967
Table 3c	Summary of Recorder Scale Factors - Sliding
	Recorder Scale Factors, Barrow Alaska Carbon
	Dioxide Project
Table 4	Index Values of Working Reference Cases
Table 5	Combined Scripps and Barrow Index Values of
	Working Peference Gases
Table 6	Comparison of Scripps and Barrow Index Values
	of Working Reference Gases
Table 7	Indices of Air With Continuous Analyzer, 1961-1963
Table 7a	Indices of Air With Continuous Analyzer, 1965-1967
Table 8	Monthly Index of Carbon Dioxide (opm) at Barrow,
	Alaska, 1961-1963

Table 8a	Monthly Index of Carbon Dioxide (ppm) at Barrow,
	Alaska, 1965-1967
Table 9	Monthly Index of Carbon Dioxide (ppm) at Barrow,
	Alaska - Manometric Concentration Scale, 1961-1963
Table 9s	Monthly Index of Carbon Dioxide (npm) at Barrow,
	Alaska - Manometric Concentration Scale, 1965-1967
Table 10	Twelve Month Running Mean Concentration of
	Atmospheric Carbon Dioxide at Barrow, Alaska
Table 11	Values of Tables 9, 9a Referred to a Constant Datum
	(January 1960)
Table 12	Diurnal Variation of Carbon Dioxide, Barrow, Alaska
	1961-1963
Table 12a	Diurnal Variation of Carbon Diexide, Barrow, Alaska,
	1965-1967
Table 12b	Average Diurnal Variation of Carbon Dioxide,
	1961-1967

PREFACE

This report presents a summary of measurements of the concentration of carbon dioxide near Barrow, Alaska, and at the North Meadow Lake field station of the Arctic Research Laboratory, Barrow, Alaska.

This work was supported under a contract from the Office of Naval
Research (ONR 477(24)) with the Department of Atmospheric Sciences,
University of Washington. The analytical program was conducted cooperatively
with Dr. C. D. Keeling's (The Scripps Institution of Oceanography, La
Jolla, California) atmospheric carbon dioxide program at Mauna Loa,
Hawaii, and the South Pele Station, Antarctica.

The carbon dioxide program at Bacrow was initiated and maintained from July 1961 to August 1962 by J. J. Kelley, Jr. Operation of the carbon dioxide analyzer was continued by J. Unger from September 1962 to March 1963, and from April 1968 to Setcher 1960 by J. Stroschein.

The carbon dioxide program at the North Headow Lake field station was maintained by D. Weaver from January 1983 to September 1965, by B. Saith from September 1986 to September 1986, and by W. Howald from Outober 1986 to the conclusion of the program in September 1967.

The Director of the Austic Research Laboratory, Dr. M. C. Brewer and his staff, have provided invaluable asciotance to the project.

I. INTRODUCTION

This report presents the final results of a program to measure the concentration of carbon dioxide in the atmosphere at Barrow, Alaska from July 1961 to October 1963, and at the North Meadow Lake field station of the Arctic Research Laboratory, Barrow, Alaska from January 1965 to September 1967. The location of each site is shown in Figure 1. Daily average values of the concentration of CO_2 in the surface air are computed from data derived from original strip chart records of a continuous recording infrared gas analyzer installed at the station. All relevant data and computations for the years 1961 through 1967 are contained in this report. The experimental method is described in a Technical Report by Kelley (1964). Interpretation of the data will be published in a scientific journal.

All data in this report are final values. The procedure for computation follows that used at the Scripps Institution of Oceanography, La Jolla, California as described in Research Reports I through VIII*.

II. REFERENCE CAS COMPARISONS - TABLE 1, 1a

This table lists, in chronological order, both the observed scale differences which were used to calibrate the gas analyzer, and their conversion into index values proportional to ${\rm CO}_2$ concentration. The

^{*}Copies of these reports may be obtained from Dr. Charles D. Keeling, S.I.O., La Jolla, California.

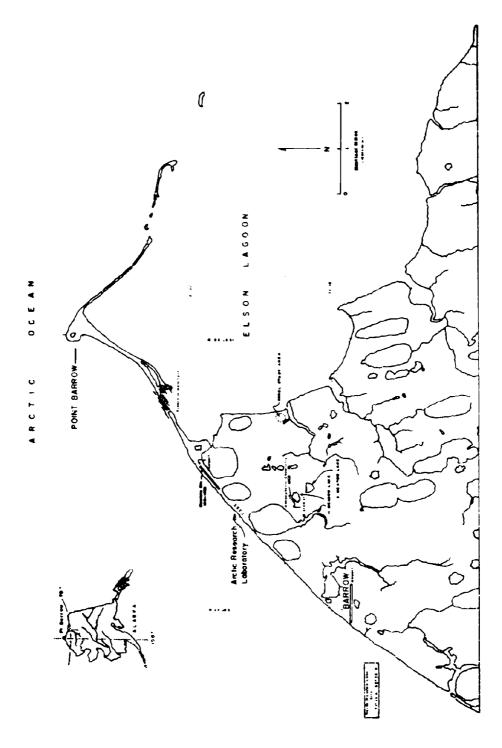


Figure 1 Map of Point Barrow vicinity showing the atmospheric chemistry site near the ocean beach and the North Meadow Lake field station.

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calibrations of the analyzer consisted of repeated comparisons of pairs of specially prepared gas mixtures of CO₂ in nitrogen obtained from the Scripps Institution of Oceanography. These reference gas mixtures were stored in stainless steel cylinders called "tanks."

Under normal operating conditions ten comparisons were obtained by alternately passing one gas of the pair, and then the other, through the infrared analyzer for five minutes at the same flow rate employed in the air measurements (normally 0.5 liters per minute). As soon as one series of ten comparisons was run, one or both tanks were replaced and another pair of tanks compared. This process was repeated, as a rule, three times during the life of a "working reference" tank: at the beginning of use, when the gas pressure was half depleted, and at 400 p.s.i., before return of the cylinder to Scripps for final calibration. The scale difference between two successive traces, in recorder chart ordinates, was read with a straightedge scale (30 divisions to the inch) by drawing parallel straight lines through each of the traces belonging to the reference gases. The successior of individual scale differences for each tank pair was entered on data sheets. The calibrations described served to establish the recorder sensitivity of the infrared gas analyzer. They were also used to determine the index values of reference gases known as "working references," used in connection with air measurements. The general method used by the Scripps Institution for tank standardization (Figure 2) was modified somewhat at Barrow during the period covered by the report. Initially, two reference gases were compared with air every 30 minutes. From 1962 to the end of the program in 1967, three reference gases were employed. Two of the reference gases were used

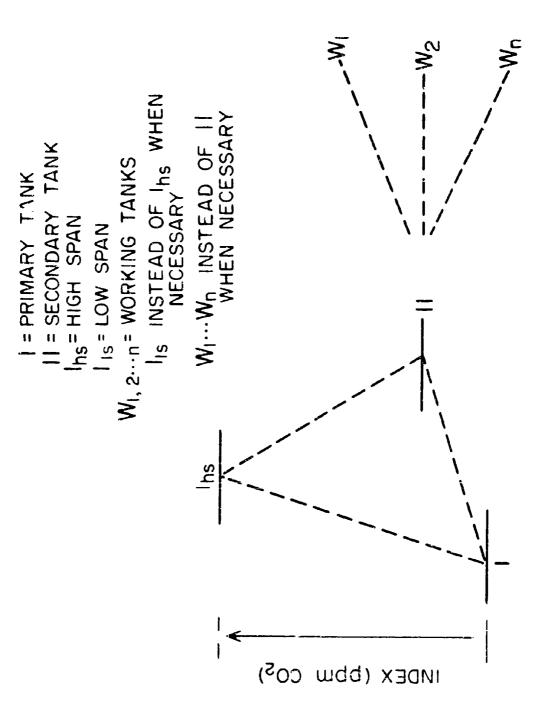


Figure 2 Mutual Comparison Method for Tank Standardization.

as comparison standards. The third reference gas was ranked as a "working reference" and compared with air every 30 minutes. The "working reference" was compared directly to the comparison standards, primary and span (high or low), in the absence of a suitable secondary reference at Barrow.

In Table 1, tanks related to each calibration run are identified by tank numbers. They are listed in columns 1 and 2. Column 1 lists the number of the standard tank; column 2 lists the number of the tank with which it is compared. The average observed scale difference for each tank pair is listed in column 3. A positive number indicates that the compared tank, for that particular comparison, has a higher scale reading, and consequently a higher CO₂ concentration than the standard; a negative number indicates the reverse. The number of comparisons (not always 10) which entered into each average scale difference is listed in column 4.

The recorder sensitivity, determined by comparisons of the primary and secondary standards, is expressed by a "recorder scale factor" listed in column 5. The computed index differences, each with the same sign as the corresponding scale difference, and the index value of the compared tank, in terms of a prescribed, or "assigned" value of the standard tank, are listed in columns 6 and 7.

Weighted average recorder scale factors, column 5, are copied from column 7 of table 2. Index differences, column 6, were computed by the formula given in Section III-D.

The computed index values, column 7, are the algebraic sums of the index values of the standard tanks listed in column 1 and the index differences of column 6. The index values of the standard tanks are those listed in column 7 of Table 6. In the case of the primary tanks designated as I and I_{hs} or I_{LS} in Figure 2, they depend solely on the measurements made at Scripps.

The data listed in Table 1 are for the period 2 January 1965 to 18 September 1967 at the North Meadow Lake field station. The data in Table 1a are for the period 1 April 1964 to 14 June 1967 at the University of Washington. The data for reference gas comparisons at the Arctic Ocean beach site from 6 January 1962 to 21 August 1963 are given in Report 2 (Kelley, 1966).

The scale differences entered in column 3 of Table 1 and la are copied from original entries on the reference gas data sheets.

III.RECORDER SCALE FACTORS - TABLE 2, 2a

A. Definition

The Recorder Scale Factor, RSF, is defined as the index difference between two reference gases divided by the number of scale divisions (30 div. to the inch) between the recorder chart traces for each reference gas recorded in units. Ten divisions on the scale were equal to one unit. The index of a reference gas tank is defined as a provisional CO₂ concentration, or mixing ratio, in ppm based on the initial analysis of the tank.

B. Standard Computation for Three Mutually Compared Tanks

Columns 1 through 4, except values with asterisks explained below, and the last entry in column 4 for each calibration day, list selected data

copied directly from the corresponding columns of Table 1. These data are employed, as shown below, to obtain daily RSF's.

The following format has been adapted from the Scripps (SIO Reports 1-8) scheme for tank standardizations, where the standard tank index values have been assigned the symbols A and B, and the compared tank, without such assignment, the symbol X:

Standard Tank No.	Compared Tank No.	Observed Scale Difference	No. of Comparisons
A	x	[X] - [A]	a
В	X	[X] - [B]	Ъ
Å	B	[Y]*	(a or b)*
[Y] = ([X] - [A])	(X) - (X) - (B) - (B)	- [A])	

The asterisk on [Y]indicates the calculated value, and the brackets indicate index values. The number of comparisons assigned to [Y] is "a" or "b", whichever is smaller. The observed scale differences were taken from the averages of the individual chart scale differences (Table 1).

The observed comparisons and calculated values of any group of three tanks, A, B, and X are set off in the table by boxes.

C. Determination of Index Differences

Index differences shown in Tables 2 and 2a, column 5, were obtained from index values of the standard tanks as follows:

Tank Numbers	Index Values	Difference
11589 vs 18206	314.59 - 310.70	3.89
11589 vs 18207	314.59 - 312.78	1.81
18206 vs 18208	314.59 - 312.40	2.19
11589 vs 10071	-314.59 + 339.00	24.41

The index values of separate tanks are obtained from Table 4.

D. Weighted Average Recorder Scale Factors

Column 6 presents RSF's computed according to the definition given in section III-A. Column 7 presents the weighted average values of the recorder scale factors for each calibration day. The index differences in column 6 of Table 1 are computed by the formula:

Computed Index = (Observed Scale Difference)(Weighted Average RSF)
Difference

IV. SUMMARY OF RECORDER SCALE FACTORS - TABLES 3, 3a, 3b, 3c

Values of RSF's are assembled in chronological order in column 5 of Table 3 for Periods 1 through 11, 10 July 1961 to 16 December 1961. A graph for the data from Period 1 through Period 11 is shown in Figure 3. During these periods, breaks in continuity were extreme due to the development of a method for determining a standard operating method for infrared analysis at the Arctic Ocean beach site. Each break is characterized by a change in the span control on the infrared analyzer. Therefore, discrete periods of relatively constant recorder scale factors are created between span changes.

During periods 12 to 15, from 6 January 1962 to 21 August 1963, (Table 3a) a constant recorder span setting was used and a mutual comparison method of tank standardization was set up. These data are shown in Figures 4 and 5.

Table 3b presents a summary of recorder scale factors for the period 2 January 1965 to 18 September 1967 at the North Meadow Lake field station.

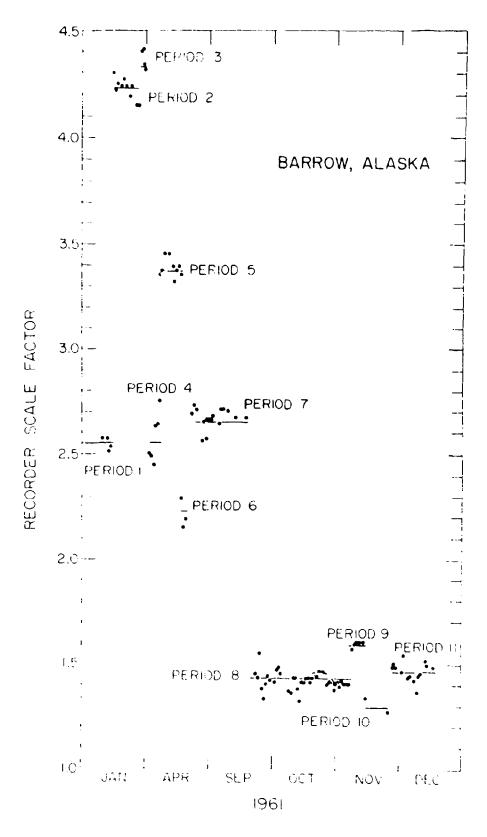


Figure 3 Recorder Scale Factors (RSF's) Adjusted to Standard Barometric Pressure Versus Calendar Dates, Period 1-11, Arctic Ocean Beach Site.

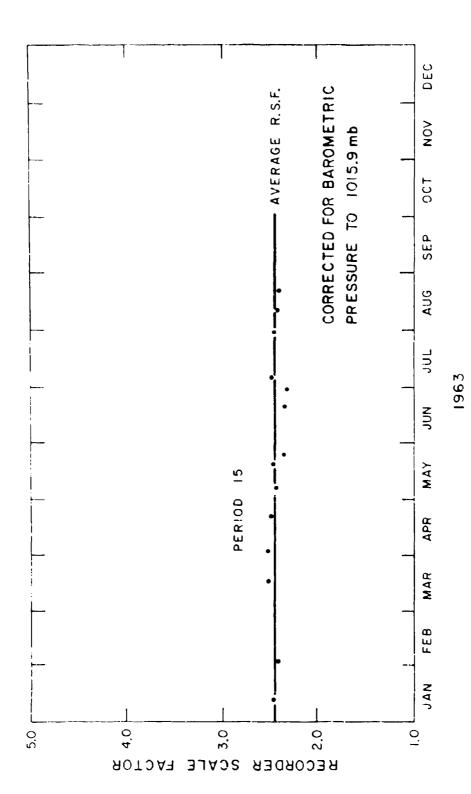


Figure 5 Recorder Scale Factors (Poris) Adjusted to Standard and Carometri Pressure Tarms Calendar Dates, Period 15, Incl. Oct. Oct. Besen Cale

The data are derived by means of the mutual comparison method. Discontinuities in the recorder scale factors occurred at various times during the period of analysis at North Meadow Lake. Table 3c provides daily recorder scale factors for the periods where discontinuities occur.

The data in Table 3c were produced by drawing a line between the end point of the average RSF curve for one period to the starting point of the average RSF curve of the next period. Daily RSF's were recorded and defined as sliding recorder scale factors. The recorder scale factors adjusted for pressure barometric for the period 2 January 1965 to 18

September 1967 are shown in Figures 6, 7, and 8.

All recorder scale factors were adjusted to a standard barometric pressure of 30.00 inches of mercury (1015.9 mb). The following formula was used:

Adjusted Recorder (Weighted Average RSF) (Observed Barometric Pressure)
Scale Factor 30.00 inches of mercury

V. INDEX VALUES OF REFERENCE GASES - TABLE 4

This table presents the index values of all reference gases used in the Arctic field program and at the University of Washington. All of the analyses were performed at the Scripps Institution of Oceanography.

VI. COMBINED SCRIPPS AND BARROW INDEX VALUES OF WORKING REFERENCE GASES - TABLE 5

This table summarizes the index values of all working reference gases used at the North Meadow Lake field station from 1965 to 1967.

The data for working reference gases for 1961 to 1963 are given in Report 2, Table 7 (Kelley, 1966).

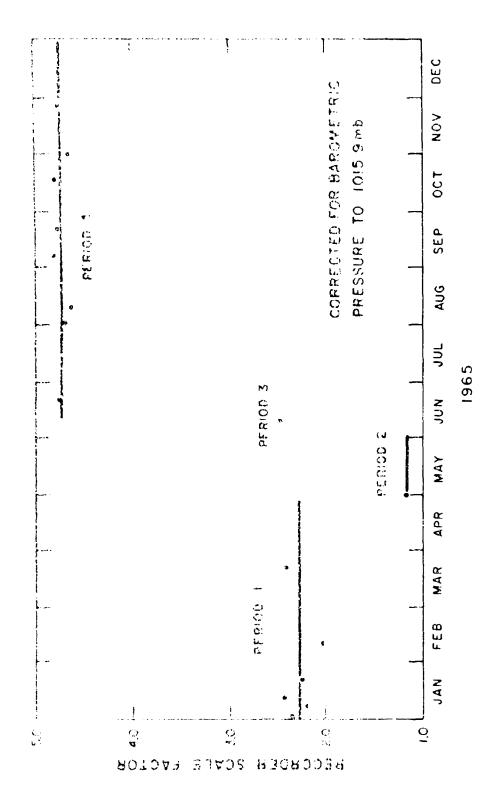


Figure 6 Recorder Scale Factors (RSF's) Adjusted to Standard Barometric Pressure Versus Calendar Dates. Period 1-4, North Meadow Lake.

Entries in columns 2 and 3 are the numbers of comparisons and weighted average index values based on measurements at Scripps prior to and after use. These data are taken from Table 4.

Entries in columns 4 and 5 are the numbers of comparisons and weighted average index values based on measurements at the North Meadow Lake field station near Barrow, Alaska.

Entries in columns 6 and 7 list the total number of comparisons and veighted average index values based on all measurements at Scripps and at Darrow.

VII. COMPARISON OF SCRIPPS AND BARPON INDEX VALUES OF MORKING REFERENCE CASES - TABLE 6.

This table presents the results of all analysis of Barrow reference tanks used in the daily comparison with air during 1965 to 1967. This comparison for the years 1961 to 1963 is given in Report 2, Table 8 (Felley, 1966). The table compares the results of the analyses made at the Scripps Institution of Oceanography with those made at Barrow.

The total number of indices and comparisons shown in columns 2 and 3 are taken from the columns headed cumulative runs and cumulative index of Table 4. The number of comparisons and reference tank indices in columns 4 and 5 are copied from columns 4 and 5 of Table 5. Entries in column 6 are the differences between index values in parts per million by volume CO2 obtained from measurements at Barrow and Scripps, and represent the index departure from Scripps values. These data are plotted in Figure 9 for the period 1961-1963, and Figure 10 for the period 1965-1967.

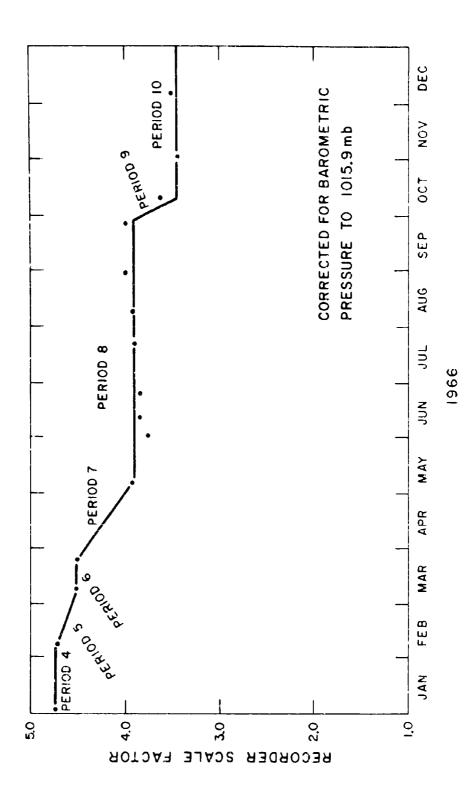


Figure 7 Recorder Scale Factors (RSF's) Adjusted to Standard Barometric Pressure Versus Calendar Dates, Period 4-10, North Meadow Lake.

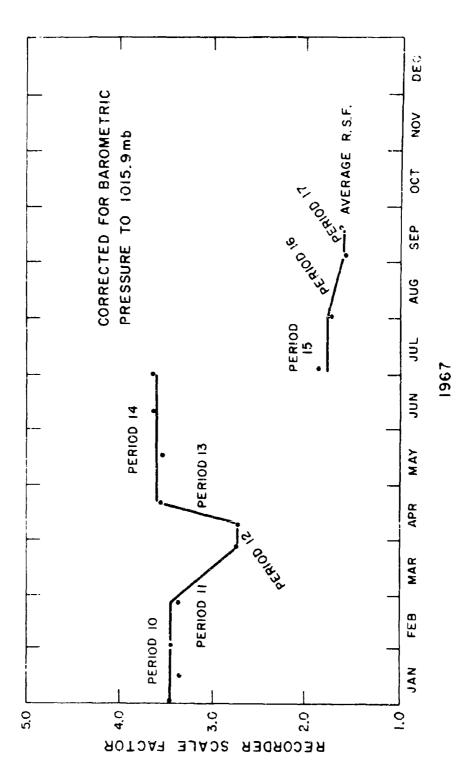


Figure 8 Recorder Scale Pactors (RSF's) Adjusted to Standard Barometric Pressure Versus Calendar Dates, Period 10-17, North Meadow Lake.

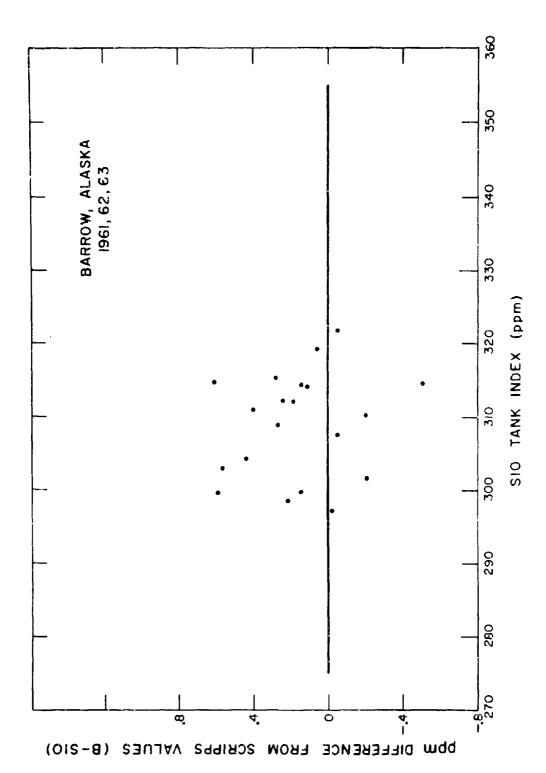
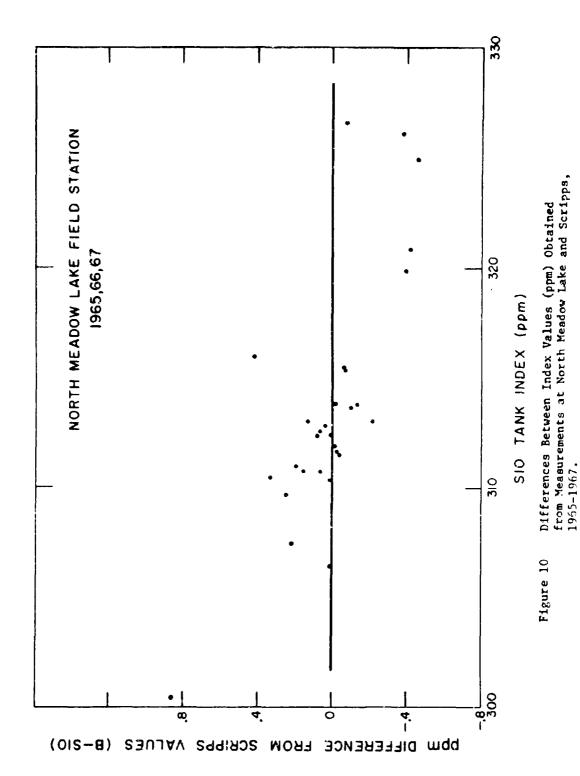


Figure 9 Differences Between Index Values (ppm) Obtained from Measurements at Barrow and Scripps, 1961-1963.



)

VIII. INDEX VALUES OF AIR - TABLE 7, 7a

A. Computation of Index Values

These tables contain all daily CO₂ values at the Arctic Ocean beach site and the North Meadow Lake field station for the period 1961-1967. Column 1 lists the calendar date of the analysis. Column 2 shows the observed daily average scale difference between the air trace and the working reference gas trace. Column 3 lists the total number of comparisons for the day. A full day consists of forty-eight half-hour comparisons. Column 4 records the average barometric pressure for the day. These values are obtained from the original carbon dioxide daily data sheets. All of the data for the years 1961 to 1963, Table 7, were processed manually. All of the data from 1965 to the termination of the program in 1967 were precessed with the aid of an IBM 7094 computer. The Fortran 4 format is given in Appendix 2.

The observed scale difference in column 2 was adjusted to a standard barometric pressure of 30.00 inches of mercury (1015.9 mb) by the formula:

Adjusted Scale Difference Difference X 30.00 inches of Hg Average pressure for the day

and this adjusted scale difference is recorded in column 5.

Column 6 lists the RSF's to be used in converting scale differences to index units. These are based on values listed in Tables 3, 3a, 3b, and 3c which have been adjusted to standard atmospheric pressure.

The computed index difference in column 7 is obtained by:

Computed Index Difference = RSF X Adjusted Scale Difference

The working reference tank used in the comparison with air is listed in column 8, its index in column 9. These data are taken from Table 5. The daily average index values in column 10 are the algebraic sums of the entries in columns 7 and 9.

In several instances reference tank changes were made during the day. In these cases the daily index was computed by first computing an air index for all of the observations with one tank in use, and doing the same for the data taken with the replacement tank. These data are reported separately in column 10. The daily index is taken as the average of the two separate index values.

B. Manometric Concentration Scale

Throughout this report, the CO₂ data have been reported in terms of an index scale. It was established provisionally at Scripps in 1959 that the true concentration in parts per million by volume is related to the index scale by:

Manometric Concentration = (C - 311.51) 1.2186 + 311.51 where C is the index value.

This equation is based on the absolute calibration of primary and span reference gases by means of a mercury manometer. It is possible that future manometric calibrations may result in further adjustment of the index scale. The intercept value (311.51) is believed to be correct within 1 ppm; the slope value (1.2186) within 0.03.

This equation has been used to report atmospheric CO₂ concentrations in the reports and journal contributions listed in Appendix 1.

Column 11 lists the manometric concentration of the index values reported in column 10 in ppm CO₂ by volume dry air. The data are shown graphically in Figure 11 for the period 1961-1963, and Figure 12 for the period 1965-1967.

IX. MONTHLY AVERAGE INDEX OF CARBON DIOXIDE - TABLE 8, 8a

This table presents the monthly average index of atmospheric CO₂ at Barrow, Alaska for the years 1961-1963 (Table 8), and 1965-1967 (Table 8a). Columns 2, 5, and 8 list the number of days for which air index values are quoted in Tables 7 and 7a. Columns 3, 6, and 9 list the monthly carbon dioxide index values.

X. MONTHLY AVERAGE INDEX OF CARBON DIOXIDE, MANOMETRIC CONCENTRATION SCALE - TABLE 9, 9a

The data in Tables 9 and 9a are the manometric indices in ppm CO, for index values quoted in Tables 8 and 8a.

The averages of the monthly values for each year are given in columns 3, 6, and 9.

XI. TWELVE MONTH RUNNING MEAN CONCENTRATION OF CARBON DIOXIDE - TABLE 10

A twelve-month running mean concentration of CO_2 was calculated to smooth out the seasonal variation in CO_2 . Concentrations for CO_2 are presented for the period 1962 to 1967. Means are plotted in Figure 13 versus the sixth month of the appropriate 12-month interval. Least squares regression lines were fitted to the data for the periods 1962-1963 and 1965-1967. Equations for each regression line were determined as

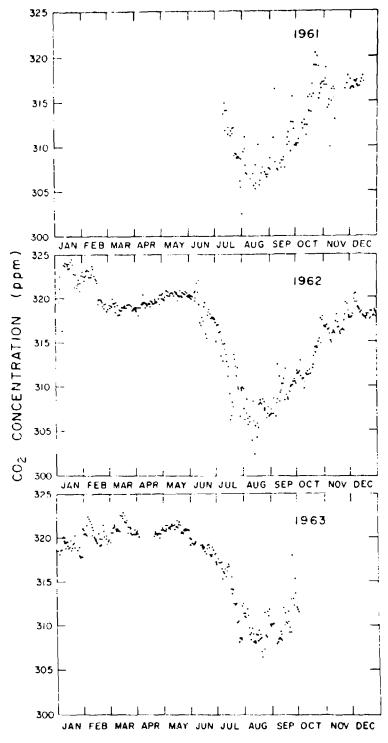


Figure 11 Daily Average Concentration of CO₂ 1961-1963.

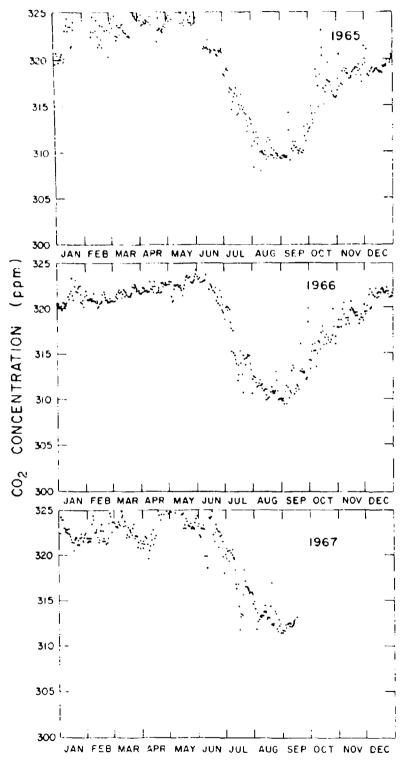
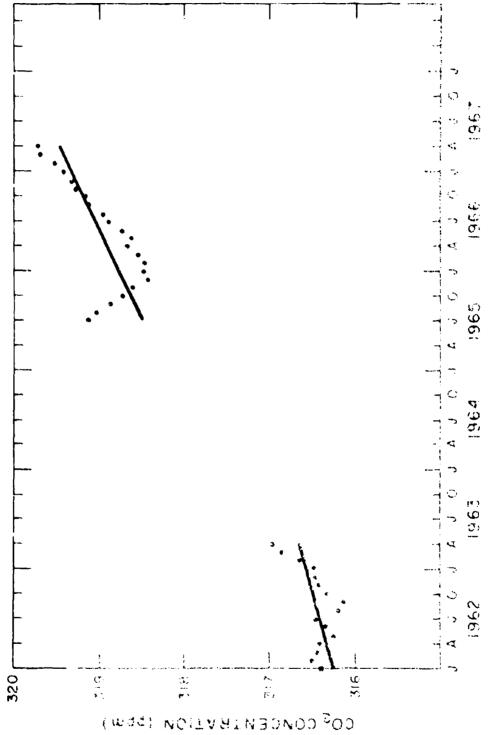


Figure 12 Da:ly Average Concentration of CO₂ 1965-1967.



Mighte 23 - Tubliva-Mouth Phinches Woun of the Chromitelians of Atministration (2), than Partou, Maska.

tollews:

1967-1963

2965-1967

where C_{00} is the noncontration of 00, it ppm, and M is the corresponding number of marths taken in sequence from the first month, M = 0.

The straight line for the period 1962-1963 indicates a rate of increase of CC₂ in the Archic atmosphere of U.026 ppm per month. The straight line for the period 1965-1967 indicates a rate of increase of CC₃ of U.0459 ppm per month. The weighted average of the two rates of increase in CO₃ in the Arctic atmosphere is 0.038 ppm per month or 0.46 ppm per year.

XII. VALUES OF TABLE 9 AND 98 REFERRED TO 8 CONSTANT DATUM - TABLE 11

This table lists wonthly average concentrations from Tables 9 and 9a rejerred to a datum of January 1960 on the assumption that the concentration of CO₂ in the atmosphere over the Barrow area increased at a rate of 0.05 ppm per month. The 0.06 ppm per month rate of increase is based on the observations at Mauna Loz by Pales and Keeling (1965) in the Antaictic by Brown and Keeling (1965), and by the rate given in this report for the Arctic.

Composite averages appear in column 5. Column 6 lists the departure of these averages from the annual mean value of 314.69. The monthly average concentration of CO₂ near Barrow, Alaska referred to a constant datum (1960) is shown in Figure 14.

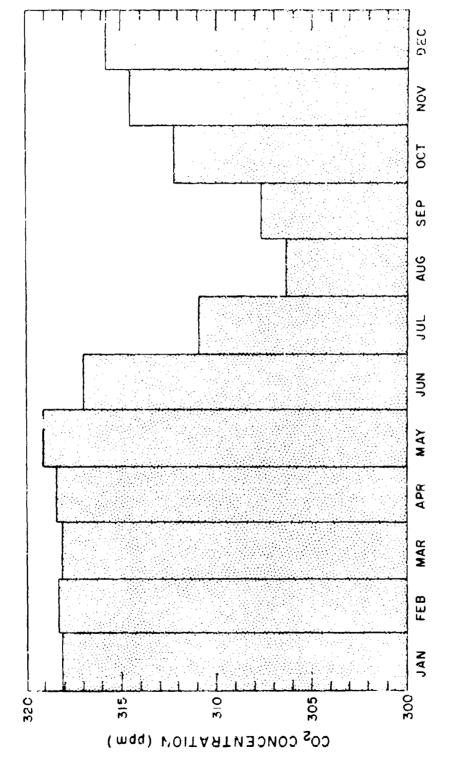


Figure 14 Monthly Average Concentration of CO, Near Barrow, Alaska Referred to a Constant Datum (January 1960).

XIII. THE DIURNAL VARIATION OF CO_2 - TABLE 12, 12a, 13c

The diurnal variation of CO_2 was calculated from the half-hourly observations recorded on the original carbon dioxide data sheets. The diurnal variations are based on hourly air indices by finding the average index for each hour of the day for each month.

Figure 15 and Table 12c show the average diurnal variation of ${\rm CO}_2$ for each month based on the data for ${\rm CO}_2$ from 1961 to 1967.

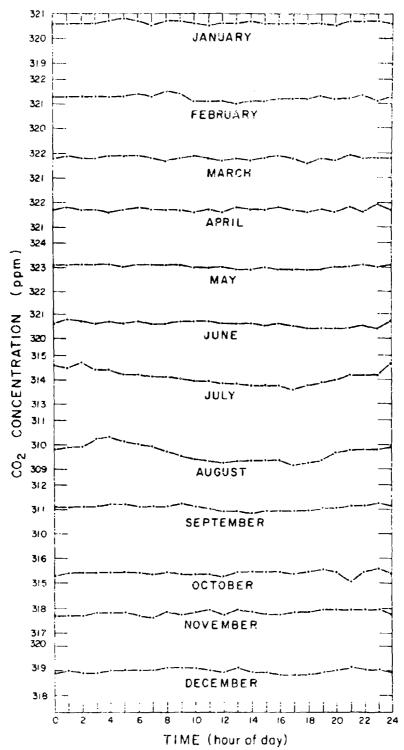


Figure 15 Average Diurnal Variation of CO₂ Near Barrow, Alaska, 1961-1967.

TABLE 1: REFERENCE CAS COMPARISONS
BARROW, ALASKA CARBON DIOXIDE PROJECT

		1965	.1965	3,1965	1,1965	11,1965	1965	1965	1965
6	Date of Anayleis	January 2,1965	January 8.1965	January 13,1965	January 21,1965	February 11,1965	March 23, 1965	June 7, 1	June 8, 1
8	S10 Index	312.78 310.70 312.78	312.78 310.70 312.78	312.78 313.82 312.78	312.78 313.82 312.78	310.79 312.40 310.79	310.79 312.40 310.79	309.65 309.65	315.42 312.78 310.79 312.40
7	Computed Index	312.80 310.74 312.86	312.78 310.78 312.89	312.76 313.75 312.88	312.75 313.91 312.71	310.85 312.51 310.97	310.83 312.31 310.73	309.95	315.38 312.74 311.19 312.49
9	Computed Index Diff.	- 1.79 - 3.85 2.16	- 1.81 - 3.81 2.19	1.83	- 1.84 - 0.68 - 1.11	- 3.74 - 2.08 - 1.43	- 3.76 - 2.28 - 1.67	- 4.64	5.73 1.56 1.56 3.38
5	Recorder Scale Factor	2.32	2.15	2.41	2.27	2.02	2.38	4.99	86.4
4	No. of Compar- isons	10 10 10	10 10 10	11 6 6	ৰূপে দা	10 10 9	6 1 6 6	10 10	
3	Observed Scale Diff.	- 0.77 - 1.66 0.93	- 0.84 - 1.77 1.02	- 0.76	- 0.81 - 0.30 - 0.49	- 1.85 - 1.03 - 0.71	- 1.58 - 0.96 - 0.70	4.93 - 0.93 - 5.78	0.42 1.15 0.62 0.31 0.57
2	Compared Tank No.	18207 18206 18207	18207 18706 18207	18207 11097 18207	1.8207 11097 18207	11635 18208 11633	11633 18308 11633	10071	10066 10072 18207 11633 18208 11669
,	Standard Tank	11589 11589 18206	11589 11589 18206	11589 11589 11097	11589	11589 11589 18208	11589 11589 18208	11589 11589 10071	
6 31:					- 15	-			

TABLE 1: REFERENCE CAS COMPARISONS
BARROW, ALASKA CARBON DIOXIDE PROJECT

	is a	1965	,1965	1,1965	10,1965	r 8,19
6	Date of Analysis	June 8,1965	June 21,1965	August 2,1965	August 10,1965	September 8,19
e 0	SIO Index	307.42 309.65 309.65	309.65 309.65 315.42 311.73	309.65 309.65 311.73 315.42 312.78 310.79	309.65 309.65 311.73 306.46 307.42	309.65 339.65 307.42
7	Computed Index	308.38 309.71 309.57	309.84 309.83 515.21 311.69	309.70 309.88 311.74 315.49 312.93 311.08	310.23 310.13 311.69 306.38 307.42	309.97 309.84 307.39
9	Computed Index Diff.	- 1.27 - 4.88 - 29.43	- 4.75 - 29.17 5.56 2.04	- 4.89 - 29.12 2.09 5.84 3.28 1.43	- 4.36 - 28.87 - 2.04 - 3.27 - 2.23 34.70	- 4.62 - 29.16 - 2.26
5	Recorder Scale Factor	2.49	4.75	4.75	4.74	4.81
*	No. of Comper- isons	10 10 10 10	10 00 00 10 00 00 00 00 00 00 00 00 00 0	0 0 0 0 0 0 0 0	10 10 10 10 10 10 10	11 10 01 10 01
m	Observed Scale Diff.	9.74 - 0.51 - 1.96 - 11.82	5.15 - 1.00 - 6.14 1.17 0.43	5.18 - 1.03 - 6.13 0.44 0.30 0.30	5.14 - 0.92 - 6.09 - 0.43 - 0.47 7.32	5.06 - 0.96 - 6.06 - 0.47
8	Compared Tank	10071 10073 11111	10071 11111 11111 10072 10066	10071 11111 11111 10066 10072 18207 11633	10071 11111 11111 10066 11669 10073 H3000FL	10071 11111 11111 10073
-	Standard Tank No.	11589 11111 11589 10071	11589 11589 10071 11111	11589 10071 11111 11111 11111	11589 110071 11111 11111 11111	12589 11589 10071
Sel:				- 16 -		

TABLE 1: REFERENCE CAS COMPARISONS
BARROW, ALASKA CARBON DIOXIDE PROJECT

	1				1, 1965									, 1965				1966				1966				%				996			
đ		Date of	Analysts		September 21, 1965									Movember 26, 1965				January 3, 1966				Pabruery 8,	•			March 9, 1966				March 24, 1966			
•	0	210	Index			309.65	309.65	307.42	306.46	309.65	309.65	300.41	306.46		309.65	309.65	300.41		309.65	309.65	319.93		309.65	309.65	324.92		309.65	309.65	326.65		309.65	309.65	326.65
r		Computed	Index			309.94	309.80	307.37	306.47	310.12	310.23	301.21	306.56		310.28	308.80	301.33		309.80	310.61	320.32		309.86	309.84	324.47		309.87	309.67	326.47		309.58	309.82	326.70
,	0	Computed	Index	Diff.		~ 4.65	- 29.20	- 2.28	- 3.18	- 4.47	- 28.77	- 8.44	- 3.09		- 4.31	- 30.20	- 8.32		17.4	- 28.39	10.67		- 4.73	- 29.16	14.82		- 4.72	- 29.33	16.83		- 5.01	- 29.18	17.05
	^	Recorder	Scale	Pactor	4.74									78.7				4.74				4.78				4 45				4.51			
•	4	No. of	Compar-	1sons	1.0	10	10	10	10	10	10	10	10	10	130 140	7.0	CI	10	10	10	10		10	10	10	10	70	70	10	10	10	10	10
•	2	Observed	Scale	Diff.	5.12	86.0 -	- 6.16	- 0.48	- 0.67	- 0.97	- 6.24	- 1.83	- 0.67	5.02	- 0.89	- 6.24	- 1.72	5.34	- 1.01	5.99	2.25	5.10	- 0.99	- 6.10	3.10	5.45	- 1.06	- 6.59	3.78	5.47	- 1.11	- 6.47	3.78
•	7	Compared	Tank	No.	10011	11111	11111	10073	11669	11111	11111	10076	11669	10001	11111	11111	10076	10071	11111	11111	10063	10071	11111	11111	10068	1001	11111	11111	4274	10071	11111	11111	4274
•		Standard	Tenk	₩.	11589	11589	1007	11111	11111	11589	10071	11111	11111	11589	11589	10071	11111			1001	11111	11589	11589	1001	11111	11589	11589	1001	11111	11589	11589	10071	11111
•	3																-	17	-														

TABLE 1 : REFERENCE GAS COMPARISONS
BARROW, ALASKA CANDON DIOXIDE PROJECT

6	Date of Analysis	Нау 7, 1966	June 2, 1966 June 12, 1966	June 24, 1966
80	SIO Index	309.65 309.65 319.93 320.83 320.83 311.68	310.97 316.97 315.29 310.97 316.97	310.97 315.29 315.29 312.48 310.97 310.97
7	Computed Index	310.06 309.58 318.76 319.35 320.98 311.63	311.18 311.29 315.17 311.49 311.48	311.34 311.32 315.15 312.38 311.42 311.21 309.77
ş	Computed Index Diff.	- 4.51 - 29.42 - 9.11 9.70 11.33 11.29 1.98	-3.41 -27.71 4.20 -3.10 -27.52	-3.25 -27.68 4.18 1.41 -3.17 -27.79 -1.55
\$	Recorder Scale Factor	3.96	3.75	3.91
4	Mo. of Compar- isons	2222222		
3	Observed Scale Diff.	2.45 2.86 2.86 2.86 2.85 0.50	6.54 - 0.91 - 7.39 - 1.12 - 0.80 - 7.11 1.14	6.24 - 0.83 - 7.08 1.07 0.36 - 0.82 - 7.18 - 0.40
2	Compared Tank No.	10071 11111 110063 10067 10067 10067	10071 10072 10072 10073 10071 10072 10072	10071 10072 10073 11097 11097 10072 11097 11111
Sol: 1	Standard Tank No.	1589 1007 1007 11111 11111	11589 11589 11589 10071 10071 10072	11589 11589 10071 10072 11589 11589 10071

TABLE 1: REPERENCE GAS CONTAINSONS
BARROW, ALASKA CARBON DIOXIDE PROJECT

		8, 1966	Augus t 30, 1966	September 26, 1966	October 10, 1366	ır 3, 1966	December 6, 1966
6	Date of Analysis	Angust	August	Septem	October	Rovember 3,	Decemb
8	SIO Index	310.97 310.97 312.48 312.58 326.00	310.97 310.97 312.58	310.97 310.97 312.58 326.00	310.97 310.97 313.65	310.97 310.97 313.65	310.97 310.97 313.76 326.00
7	Computed Index	311.38 311.29 312.58 312.46 325.71	310.80 310.71 312.82	310.95 310.52 312.67 326.65	311.31 311.03 313.60	311.50 311.49 313.52	311.37 311.29 313.63 325.47
9	Computed Index Diff.	- 3.21 - 27.71 1.61 1.49 14.74	- 3.79 - 28.29 1.85	- 3.64 - 28.48 1.70 15.68	- 3.28 - 27.97 2.63	- 3.09 - 27.51 2.55	- 3.22 - 27.71 2.66 14.50
5	Recorder Scale Factor	3.92	4. 03	40.4	3.60	3.40	3,46
4	No. of Comper- isons	999999	10000	10 10 10 10	10 10 9	10 10 10	10 10 10 10
m	Observed Scale Diff.	6.20 - 0.82 - 7.07 - 0.41 0.38	6.05 - 0.94 - 7.02 0.46	5.95 - 0.90 - 7.05 3.88	6.70 - 0.91 - 7.77 0.73	7.17 - 0.91 - 8.09 0.75	7.02 - 0.93 - 8.01 0.77
~	Compared Tank No.	10071 10072 10072 11097 11096	10071 10072 10072 10066	10071 10072 10072 10066 11082	10071 10072 10072 6060	10071 10072 10072 6060	10071 10072 10072 11633 11082
-	Standard Tank	11589 11589 10071 10072 10072	11589 11589 10071 10072	11589 11589 10071 10072	11589 11589 10071 10072	15589 11589 10071 10072	11589 11589 10071 10072
93				- 19 -			

TABLE 1: REFERENCE CAS COMPARISONS
BARROW, ALASKA CARBON DIOXIDE PROJECT

1	1	67	967	7967	1967	~	
	£ 1.e	7 2, 1967	January 16, 1967	February 2, 1967	February 25, 1967	March 27, 1967	8, 1967
6	Date of Analysis	Jemery 2,	Jemer	Februs	Februa	Ka rch	Apr11 8,
ŀ	H	97 97 00	97 36 36	97 36	97 36 07	97 07	97 07 83
80	SIO Index	310.97 310.97 326.00	310.97 310.97 326.00 310.36	310.97 310.97 310.36	310.97 310.97 310.36	310.97 310.97 313.07	310.97 310.97 313.07 311.83
	<u> </u>	6, E 0,	3355	2 4 2	551 1339 13	82 4 5 82	62 80 82
7	Computed Index	311.29 311.03 325.20	311.54 311.56 325.07 310.37	311.15 311.24 310.42	310.61 310.39 310.33	311.28 311.14 312.58	311.62 311.80 312.87 311.82
9	Index Diff.	- 3.30 - 27.97 14.23	- 3.05 - 27.44 14.10 - 0.60	- 3.44 - 27.76 - 0.55	- 3.98 - 28.61 - 0.64 - 2.16	- 3.31 - 27.86 1.61	- 2.97 - 27.20 1.90 0.85
	Computed Index Diff.	7.7	1 7 7 1	1 7	1 , 1	1 2	1 1
. 5	Recorder Scale Factor	3.47	3.35	3.44	3.37	2.78	2.75
	2 2 2	e e	m	e.	m	7	2
4	No. of Compar-	0000	58888	0000	00000	9999	00000
		2223	000000	01000	2222	1001001001	010101
3	bserved Scale Diff.	6.98 0.95 8.06 4.10	7.28 0.91 8.19 6.21 0.18	7.13 1.00 8.07 0.16	7.17 1.18 8.49 0.19	8.76 1.19 10.02 0.58	8.98 1.08 9.89 0.69
	obe Sc.		1 1 1	1 1 1	1 1 1	' -	1 1
2	Compared Tank No.	10071 10072 10072 11082	10071 10072 100° £ 11082 10076	10071 10072 10072 10072	10071 10072 10072 10076 10063	10071 10072 10072 10063	10071 10072 10072 10063 10063
-	Standard Tank	11589 11589 10071	11589 11589 10071 10672 10572	11589 11559 10671 10072	11589 11589 10071 10672 10072	11589 11589 10071 10072	11589 11589 10071 10072
	* -	=====	1 11222	###		1125	## ##
Co1 :		ĺ		- 20	-		

TABLE 1: REFERENCE GAS COMPARISONS
BARROW, ALASKA CARBON DIOXIDE PROJECT

¢.	Sanda ist and jent b	April 20, 2947	Sune 3, 1957	36. 35. yes	At 48 52 3. 1957
80	FIG	· · · · · · · · · · · · · · · · · · ·	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	233 250 250 250 250 250 250 250 250 250 250	210.57 310.87 310.85 215.97
7	Computed Index	311.56 310.98 311.72 341.35 311.98	922.97 932.25 933.25 933.45	100 000 000 000 000 000 000 000 000 000	200 200 200 200 200 200 200 200 200 200
9	Computed Index Diff.	- 3.03 - 28.02 0.75 - 3.21 - 27.02 0.82	2.00 - 3.40 - 27.87 - 28.73	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	86.85 66.85 66.85 86 86.85 86 86 86 86 86 86 86 86 86 86 86 86 86
5	Recorder Scale Factor	3.57	3.62	3.76	3.45
\$	No. of Compar- tsome	10 10 10 10 10	10 10 10 10 10	10 10 10 8	10 10 10 10
3	Observed Scale Diff.	6.68 - 7.85 - 7.85 - 0.21 - 0.90 - 7.57	0.56 6.72 - 0.94 - 7.70 - 0.68 - 7.78		7.04 - 1.10 - 8.21 0.00 1.54
2	Compared Tank No.	10071 10072 10072 10067 10071 10072 10072	10068 10071 10072 10072 10068 10071	10072 30454 10071 10072 30454	10071 10072 10072 10075
- -4	Standard Tank No.	11589 11589 10071 11589 11589 10071	10072 11589 11589 10071 10072 11589	11589 10072 11589 11589 10071	11589 11589 10071 10072
S ::	}	1			

TABLE 1: REPERENCE CAS COMPARISONS
BARROW, ALASKA CARBON DIOXIDE PROJECT

		196				1961			
		1rd 0				8			
6	Date of Analysis	September 4, 1967	1			September 18, 1967			
œ	310 Index		310.97	310.97	310.45		310.97	310.97	310.45
7	Compart ed Index		310.96	311.01	310.46		311.12	310.71	310.97
9	Computed Index Diff.		- 3.63	- 27.99	- 0.51		- 3.47	- 28.29	0.00
\$	Recorder Scale Factor	3.21				3.24			
4	No. of Compar- isons	10	70	10	10	10	10	01	20
3	Observed Scale Diff.	7.64	- 1.13	72	- 0.16	7.43	- 1.07	6.73	0.00
2	Compared Tank No.	10011	10072	10072	19075	1001	10072	10072	10075
g-4	Stardard Tank Yo.	11.589	11589	10071	10672	11549	11549	10011	10072
ક									

REFERENCE GAS COMPATISONS AT THE UNIVERSITY OF MASHINGTON BARROW, ALASKA CARBON DIOXIDE PROJECT TABLE 1a:

•	of	1 1, 1964	June 22, 1964	June 24, 1964	June 26, 1964	29, 1964	June 30, 1964	1, 1964	2, 1964	March 16, 1965
	Date of Anclys1	Apr 11	June	June	June	June	June	July	July 2,	March
88 1330	SIO Index	306.46 289.22 306.46	312.78 312.40 312.78	312,78 313,82 312,78	312.78 311.11 312.78	311.68 312.78 311.68	315.42 312.78 315.42	312.78 310.70 312.78	311.73 312.78 311.73	289.22 309.65 289.22
DIUALDE FRO	Computed	306.37 290.03 305.71	312.85 312.56 312.97	312.82 313.76 312.75	312.33 311.14 312.35	311.71 312.76 311.67	315.34 312.58 312.70	312.77 316.72 512.80	311.80 312.70 311.75	289.93 309.84 290.31
5 6 7	Computed Index Diff.	3.28 - 19.62 16.49	2.15 1.86 0.57	2.12 3.06 - 1.07	1.63	1.01 2.06 - 3.11	4.64 1.88 2.92	- 1.82 - 3.87 2.10	1.10 2.00 - 1.03	- 49.07 - 29.16 - 19.34
5	Recorder Scale Factor	1.79	1.79	1.78	1.18	1.65	1.53	1.67	1.59	1.76
\$	No. of Compar- isons	10 5 10	10 9 10	10 13	10 10 10	10	11 01	uu,	10 10 10	11 17 77 77 77 77 77 77 77 77 77 77 77 7
3	Observed Scale Diff.	- 1.83 - 10.96 9.21	1.20 1.04 0.32	1.19	1.38 0.37 1.05	0.61 1.25 - 0.67	3.03 1.23 1.91	- 1.09 - 2.32 1.26	0.69 1.26 - 0.65	- 27.88 - 16.57 - 10.99
2	Compared Tank No.	11669 10064 11669	18207 18208 18207	18207 11097 18207	18207 7344 18207	10075 18207 10075	10072 18207 10072	18207 18206 18207	10066 18207 10066	10064 11111 10064
	Standard Tank No.	11111 11111 10064	18206 18206 18208	18206 18206 11097	18206 18205 7344	18206 18206 18207	18206 18206 18207	11589 11589 18206	18206 18206 18207	10071 10071 11111
201					- 2:	3 -				

TABLE La: REFERENCE CAS COMPARISONS AT THE UNIVERSETY OF MASHINGTON BARROW, ALASKA CARBON DIOXIDE PROJECT

1	ı	1965	1965	1965	1965	1965	, 1965
6	Date of Analysis	March 17,	March 29, 1965	March 30, 1965	March 30, 1965	March 31, 1965	October 19, 1965
8	S10 Index	307.42 313.82 307.42	315.42 289,22 315.42	313.82 289.22 313.82	311.73 289.22 311.73	307.42 289.22 307.42	289.22 289.22 307.42 313.42 311.73 312.40 312.40 320.83 319.93
7	Computed Index	307.12 313.82 307.13	315.75 288.84 314.36	313.85 288.97 313.69	311.78 289.14 311.73	307.16 289.12 307.14	290.24 289.73 306.50 313.02 316.50 311.79 311.43 320.12 319.44 310.83
9	Computed Index Diff.	- 2.53 4.17 - 6.69	6.10 - 25.81 26.14	4.20 - 20.68 24.38	2.13 - 20.51 22.51	- 2.49 - 20.53 17.92	- 24.71 21.09 23.68 23.29 22.23 20.77 20.22 30.90
. 2	Recorder Scale Factor	1.78	1.87	1.86	1.87	1.89	1.78
*	No. of Compar- isons	10 10	10 10	6 6 6	10 6 10	10 5 10	
3	Observed Scale Diff.	- 1.42 2.34 - 3.76	3.26 - 11.13 13.98	2.26 - 11.12 13.11	1.14 - 10.97 12.04	- 1.32 - 10.86 9.48	20.62 6.23 6.23 9.71 12.18 14.21 12.68 11.67 12.48 6.18 16.98
c	Compared Tank No.	10073 11097 10073	10072 10064 10072	11097	10066 10064 10066	10073 10064 10073	10065 10064 10073 11097 11097 10006 11633 11633 11633 11607 10067
	Standard Tark Mo.	11111	11111 11111 10064	11111	11111	111111111111111111111111111111111111111	10070 10070 10065 10064 10064 10064 10064 10064 10064 10064 10064 10064
S1:					<u>.</u> ?	'4 –	

TABLE 1a: REFERENCE GAS COMPARISONS AT THE UNIVERSITY OF WASHINGTON BARROW, ALASKA CARBON DIOXIDE PROJECT

		1965	1966	99 99	3, 1º^6
6	Date of Abalysis	Movember 12,	March 28, 19	April 27, 1966 June 13, 1966	September 13,
80	SIO Index	289.22 289.22 306.46 311.68	289.22 289.22 300.41 311.68 315.29 312.48 313.76	289.22 289.22 289.22 289.22 313.76	289.22 289.22 312.48 315.29 313.65 313.76
7	Computed Index	289.53 289.62 306.14 311.35	289.19 289.23 300.70 310.99 310.96 312.15 312.15 312.37	289.58 289.56 289.76 289.91 313.29 315.50	289.63 289.58 312.06 314.85 313.28 312.92
9	Computed Index Diff.	- 25.42 10.98 16.92 22.13	- 25.76 10.59 11.48 21.77 22.94 23.15 24.22	- 25.37 10.92 - 25.19 11.27 24.07 26.28	- 25.32 10.94 22.84 25.63 24.06 23.70 26.19
, s	Recorder Scale Pactor	1.88	1.81	1.82	1.82
4	No. of Compar- isons	10 10 10 10			10 10 10 10 10 10
3	Observed Scale Diff,	- 19.28 - 13.52 5.84 9.00	20.15 5.85 6.34 12.03 12.01 12.67 12.79 13.38	19.95 - 13.94 6.00 18.53 - 12.85 5.75 12.28 13.41	- 19.95 - 13.91 6.01 12.55 14.08 13.22 13.02
2	Compared Tank No.	10065 10064 10064 11669 12075	10065 10064 10066 10075 10072 10073 11097 11669	10065 10064 10064 10064 11633 11669	10065 10064 11097 10073 6060 11633
Col: 1	Standard Tank No.	10070 10070 10.65 10064 10064	10070 10070 10065 10064 10064 10064 10064	10070 10070 10065 10070 10065 10064	10070 10065 10064 10064 10064 10064

TABLE 14: REFERENCE GAS COMPARISONS AT THE UNIVERSITY OF WASHINGTON AASEN, ALASKA CARBON DIOXIDE PROJECT

		ļ	20, 1966						December 22, 1966								0, 1967												
6	Date of Amelysis		October						December								March 10, 1967												
80	SIO			289.22	289.22	311.10	312.58	309.65		289.22	289.22	313.06	313.07	310.36	311.83	310.45		289.22	289.22	311.10	315.97	318.44	312.50	316.56	313.95	315.34	311.89	318.66	
7	Compute: Index			289.51	289.50	310.96	313.12	309.40		289.55	289.61	312.84	312.77	309.90	311.12	309.94		289.53	289.59	310.62	315.08	317.91	311.59	315.77	313.18	314.64	311.35	318,38	
9	Computed Index	Diff.		- 25.44	10.86	21.74	23.90	20.18		- 25.40	10.97	23.62	23.55	20.68	21.90	20.72		- 25.42	10.95	21.40	25.86	28.69	22.37	26.55	23.96	25.42	22.13	29.16	
	Recorder	Factor	1.85						1.85								1.85												
4	No. of Compar-	teons	10	10	01	10	10	10	10	10	10	10	10	01	10	10	10	10	10	10	10	10	10	10	10	10	01	01	
3	Observed Scale	Diff.	- 19.66	- 13.75	5.87	11.75	12.92	10.01	- 19.65	- 13.73	5.93	12.77		11.18	11.84	11.20	- 19.60		5.92	11.57	13.98		12.09		21.95	13.74		15.76	
2	Compared	jo.	10065	10064	10064	300000	10066	11111	10065	10064	10064	10068	10063	10076	10067	10075	10065	10064	10064	H3000	30454	30468	30363	30318	30467	30474	30407	30459	1
1	Standard	Mo.	10070	10070	10065	10064	10064	10064	10070	10070	10065	10064	10064	10.064	7,0064	10064	1,0070	10070	1,9965	10064	10064	10064	10064	10064	10064	10064	10064	10064	i I
13															9	6 -													

TABLE LA: REFERENCE GAS COMPARISONS AT THE UNIVERSITY OF WASHINGTON BARROW, ALASKA CARBON DIOXIDE PROJECT

. [כי]	-	7	(P)	4	~	ø	7	ø	Ø
	Standard Tank No.	Compared Tenk No.	Observed Scale Diff.	No. of Compar- isons	Recorder Scale Factor	Computed Index Diff.	Computed Index	SIO Index	Date of Analysis
	10070	10065	- 19.59	10	1.84				Apr11 21, 1967
	10070	10064	- 13.80	10		- 25.39	289.56	289.22	•
	10065	10064	5.99	10		11.02	289.66	289.22	
	10064	82MC	16.65	10		30.64	319.86	320.15	
	10070	10065	- 19.40	œ	1.87				May 4, 1967
	10070	10064	- 13.61	6		- 25.45	289.50	289.22	
	10065	10064	5.80	6 0		10.85	289.49	289.22	
	10064	10314	17.54	7		32.80	322.02	*	
	10064	20547	79	œ		- 7.24	281.98	* ₁ *	
	1.0070	10125	2 - 7	œ		43.42	358.37	*	
	10070	10065	- 19.75	9	1.84				June 14, 1967
.=	10070	10064	- 13.83	10		- 25.45	289.50	289.22	
2	10065	10064	5.93	œ		10.91	289.55	289.22	
,	10064	10063	12.60	6 0		23.18	312.40	313.07	
	10064	10076	11.20	10		20.61	309,83	310.36	
	10064	82MC	15.05	10		27.69	316.91	320.15	

* Botany - Forestry Department, University of Washington

TABLE 1 : REFERENCE CAS COMPARISONS AT THE UNIVERSITY OF WASHINGTON BARROW, ALASKA CARBON DIOXIDE PROJECT

1		1		, 1967																				
6	Date of	ABBAYETE		December 22, 1967																				
60	310	Index			341.62	315.34	320.15	311.43	320.39	319.19	316.56	315.97	318.66	312.50	313.95	318.44	314.59	311.89	316.71	311.83	317.34	314.97	310.45	317.92
7	Computed	Index			344.22	315.79	317.74	311.78	320.63	319.57	317.11	316.38	319.30	312.63	314.20	319.19	314.39	311.97	316.79	311.92	317.47	315.17	311,37	318.32
ę	Computed	Index Diff.			33.25	4.82	6.77	0.81	9.66	8.60	6.14	5.41	8.33	1.66	3.23	8.22	3.42	1.00	5.82	0.95	6.50	4.20	0.40	7.35
5	Recorder	Scale Factor		1.89																				
4	No. of	Compar- 1sons		10	10	10	10	10	01	10	10	10	10	10	10	70	10	01	10	10	10	10	10	10
m	Observed	Scale Diff.		10072	17.59	2.55	3.58	0.43	5.11	4.55	3.25	2.86	4.41	0.88	1.71	4.35	1.81	0.53	3.08	0.50	3.44	2.23	0.21	3.89
7	Compared	Tenk No.		10065, 10071,	6985	30674	82MC	43MC	11633	11669	30313	30455	30459	30363	30467	30468	11589	30407	10066	10067	10073	11097	10075	11111
•	N S	Tenk No.	Composite:	10071 100	_	10072	10072	10072	10,072	10072	10072	10072	10072	10072	10072	10072	10072	10072	10072	10072	10072	10072	10072	10072
3			3												6	•								

TABLE 2: RECORDER SCALE FACTORS
BARROW, ALASKA CARBON DIOXIDE PROJECT

89	Date of Analysis	January 2, 1965	Japuary 8, 1965	Jamuary 13, 1965	January 21, 1965	Pebruary 11, 1965
7	Scele Factor Wgtd. Avg.	2.316	346		2.411	2.266
9	Recorder Single Set	2.343	2.198	2.382	2.235	2.126
5	Index Diff.	3.89	3.89	1.81	1.81	2.19
4	No. of Compar- isons	10 10 10 10*	0 100	5 11 6 6 6	20 4 w w w	10 10 8
3	Observed Scale Diff.	1.66 0.77 0.93* 1.70*	1.77 0.84 1.02 1.86*	0.76 0.35 0.39	0.81 0.30 0.49 0.79	1.03 1.85 - 0.71* 1.14
2	Compared Tank No.	18206 18207 18207 18206	18206 18207 18207 18206	18207 11097 11097 18207	18207 11097 11097 18207	18208 11633 11633 18206
Co1: 1	Standard Tank No.	11589 11589 18206 11589	11589 11589 18206 11589	11589 11589 18207 11589	11589 11589 18207 11589	11589 11589 13208 11589

*See Text

TABLE 2: RECORDER SCALE FACTORS
RARROW, ALASKA CARBON DIOXIDE PROJECT

82	Date of Analysis	March 23, 1965		June 7, 1965		June 8, 1965		June 21, 1965		August 2, 1965	
,	Scale Factor Wgtd. Avg.		2,380		4.992		2.491		4.745		4.749
•	Recorder Single Set	2.281	2.489	4.951	5.033	2.506	2.476	4.740	4.749	4.712	4.786
. s	Index Diff.	2.19	2.19	24.41	24.41	24.41	24.41	24.41	24.41	24.41	24.41
Ą	No. of Compar-	10	19 0	01	10. 20	10	10* 10*	10	10* 10* 20	10	10, 10,
3	Observed Scale Diff.	0.96	0.70	4.93	5.78 4.85#	9.74	- 1.96 11.82 9.86	5.15	6.15 5.14	5.18	6.13
2	Compared Tenk	18208	11633	10071	10071	1001	11111 10071	1007.	10071	10071	11111
	Stendard Tank No.	11589	11589	11589	10071	11589	11589	11589	11071	11589	10071
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* See Text

TABLE 2: RECORDER SCALE PACTORS

BARROW, ALASKA CARBON DIOXIDE PROJECT

Œ	0	Date of	Analysis	August 10, 1965			September 8, 1965		September 21, 1965		October 18, 1965		November 1, 1965	
1	,	Scale	Pactor Vetd. Avg.			4.735		4.806		4.740		4.754		4.610
dataon among the control of the cont	٥	Recorder	Single	4.749	£ 721		4.824	4.786	4.768	4.712	4.777	4.731	4.588	4.632
former, number		Index	Diff.	24.41	24. 41		24.41	24.41	24.41	24.41	24.41	24.41	24.41	24.41
•	*	No. of	Compar- isons	10	10	30	11	10,00	10	10,	10	10,	10	104
·		Observed	Scale Diff.	5.14	- 0.92 6.03	17:5		5.10 ⁴	5.12	- 0.98 6.16 5.18	5.11	6.06 ₈ 5.16	5.32	6.24 5.27
	7	Compared	Tank No.	10071	11111	1,001	10011	11111 11111 10071	1001	11111	10071	11111	10071	11111
	7	Standard	Tank No.	11589	11589	11369	11589	11589 10071 11589	11589	11539 10071 11589	11589	10071	11589	10071
į	3			1					- 3) <u>-</u>				

See Text

IABLE 2 : RECORDER SCALE PACTORS
BARROW, ALASKA CARRON DIOXIDE PROJECT

80	Date of Amelysis	Movember 26, 1965	Jamary 3, 1966		Pebruary 8, 1966		March 9, 1966		March 24, 1966	
7	Scale Factor Wgtd. Avg.		4.84	4.737		4.782		4.447	\$05°	1
9	Recorder Single Set	4.863	4.571	4.902	4.786	4.777	4.479	4.414	4.463 4.554	
\$	Index Diff.	24.41	24.41	24.41	24.41	24.41	24.41	24.41	24.41	
4	No. of Compar- isons	10 10 10	10	10 10 20	10	10# 20	01 01	10*	10	3
3	Observed Scale Diff.	5.02 - 0.89 5.95 5.06	5.34	5.99 4.98*	5.10 - 0.99	6.10 5.11	5.45	6.59 5.53	5.47 1.11 6.47 5.36	
2	Compared Tenk	17, 01 111,11 11111 17,001	10071	11111	10071	11111	10071	1001	10071 11111 11111 19071	
Co1: 1	Standard Tank No.	11589 11589 10071 11589	11589	11589	11589	10071	11589	11589	11589 11589 10071 11589	
3		\$			- 32	-				

*See Text

TABLE 2: RECORDER SCALE PACTORS
BARROW, ALASKA CARBON DIOX: E PROJECT

1

	0	Date of Anelysis	-	May 7 1965	0067 67 621				**************************************	June 2, 1966					June 17, 1966					June 24, 1955					July 23, 1968			
A. A. PROJECT	,	Scale Factor	Watd. Avg.					3.958					3.750					3.872					3.909					3.869
Actions, Authors Canada Diox. & PRUJECT		Recorder Single	Set	4.035			188	700.0	3 732	77		3.767		3 87%			3.868		3 013	3.712		3 906		8			3.838	
, ,		Index Diff.		24.41			24.41		24.41	•		24.41		24.41			24.41	!	24.41			26.41	! :	24.41	•		24.41	
4		No. of Compar-	180ns	10	101	10	10*	20	30	31	10	10*	20	10	10	01	10*	20	10	101	10	10	20	10	10	10	10*	20
e		Observed	DITE.	6.05	1.14	7.43	6.29		6.54	0.91	7.39	6.48		6.30	0.80	7.11,	6.31		6.24	0.83	7.08	6.25		6.26	- 0.82	- 7.18	6.26	
2		Compared	NO.	1001	11111	11111	10071		10071	10072	10072	10071		10071	10072	10072	10071		10071	10072	10072	1001		10071	10072	10072	1001	
Co1: 1		Tank	NO.	11589	11589	10071	11589		11589	11589	1001	11589		11589	11589	10071	11589		11589	11589	12071	11589		11589	11589	10071	11589	

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TABLE 2: RECORDER SCALE FACTORS
BARROW, ALASKA CARBON DIOXIDE PROJECT

8	Date of Analyeis	August 8, 1966	August 30, 1966	September 26, 1966		October 10, 1966		November 3, 1966
7	Scale Factor Wgtd. Avg.	Ş	3.922	4.025	4.036		3.601	3.402
9	Recorder Single Set	3.937	4.035	4.015	3.969	3.643	3.558	3.404
5	Index Diff.	24.41	24.41	24.41	24.41	24.41	24.41	24.41
4	No. of Compar- isons	10 10 10*	10	20 20	10 10*	10	10*	10 10 10* 20
3	Observed Scale Diff.	6.20 - 0.82 - 7.07 6.25*	6.05	6.08*	- 0.90 - 7.05 6.15	6.70	6.86*	7.17 - 0.91 - 8.09 7.18*
2	Compared Tank No.	10071 10072 10072 10071	10071	10071	10072 10072 10071	10071	10071	10071 10072 10072 10071
Co1: 1	Scandard Tank No.	11589 11589 10071 11589	11589	11589	11589 10071 11589	11589	11589	11589 11589 10071 11589
3	1	1		- 3	4 -			

TABLE 2: RECORDER SCALE FACTORS
BARROW, ALASKA CARBON DIOXIDE PROJECT

8	Date of Analysis	December 6, 1966	January 2, 1967	January 15, 1967		Pebruary 2, 1967	February 25, 1967
7	Scale Factor Wgtd. Avg.	3 463		3,465	3,353	3,439	3.372
9	Recorder Single Set	3.477	3.497	3.433	3.353	3,424	3.404
٥	Index Diff.	24.41	24.41	24.41	24.41	24.41	24.41
7	No. of Compar- isons	10 10 10*	10	10	2002	10 10 10 10 20	10 10 10*
c.	Observed Scale Diff.	7.02 - 0.93 - 8.01 7.08*	6,98 - 0.95 - 8.06	7.11	1	7.13 - 1.00 8.07 7.07	7.17 - 1.18 - 8.49 7.31*
2	Compared Tank	16071 10072 10072 10072	10071 10072 19072	19071	10072	10071 10072 10072 10071	10071 10072 10072 10071
Co1: 1	Standard Tank No.	11589 11589 10071 11589	11589 11589 10071	11589	11589	11589 11589 10071 11589	11589 11589 10071 11589

See Text

RECORDER SCALE FACTORS
BARROW, ALASKA CARBON DIOXIDE PROJECT TABLE 2:

89	Date of Analysis	March 27, 1967		April 8, 1967		April 20, 1967		May 17, 1967		June 9, 1967	
7	Scale Factor Wgtd. Avg.		2.776		2.745		3.571		3.574		3.622
9	Recorder Single Set	2.787	2.764	2.718	2.771	3.654	3.487	3.487	3.660	3.632	3.611
5	Index Diff.	24.41	24.41	24.41	24.41	24.41	24.41	24.41	24.41	24.41	24.41
4	No. of Compar- isons	10	20	10	10 10* 20	10	10 10**	10	10* 10* 20	10	10* 10* 20
3	Observed Scale Diff.	8.76	- 10.02 8.83*	8.98	- 1.08 - 9.89 8.81*	6.68	- 0.85 - 7.85 7.00*	6.66	- 7.57 6.67*	6.72	- 7.70 6.76*
2	Compared Tank No.	10671	10071	10071	10072 10072 10071	10071	10072 10072 10071	10071	10072	10071	10072 10071
Co1: 1	Standard Tank No.	11589	11589	11589	11589 10071 11589		11589 10071 11589	11589	11589	11589	10071 11589

TABLE 2: RECORDER SCALE FACTORS
BARROW, ALASKA CARBON DIOXIDE PROJECT

8	Date of Analysis	July 1, 1967	July 20, 1967	August 1, 1967	Sentember 4, 1967		September 18, 1967
7	Scale Factor Wgtd. Avg.	3.627		3.759	3.450	3.206	3.236
9	Recorder Single Set	3.600	3.790	3.467	3.433	3.216	3.285
5	Index Diff.	24.41	24.41	24.41	24.41	24.41	24.41
7	No. of Compar-	10 10 10*	00 100	20 10 10	10*	10 10 20	10 10 10 10*
Ĉ	Observed Scale Diff.	6.78 - 1.07 - 7.75 6.68	6.44 - 0.93 - 7.48 6.55	7.04	- 8.21 7.11* 7.64	- 1.13 - 8.72 7.59*	7.43 - 1.07 - 8.73 7.66*
2	Compared Tank No.	10071 10672 10072 10071	10071 10072 10072 10072	10072	10071	10072 10072 10071	10071 10072 10072 10071
7	Standard Tank No.	11589 11589 10071 11589	11589 11589 10071	11589 11589	11589	11589 10071 11589	11589 11589 10071 11589
Col							

See Text

TABLE 2a: RECORDER SCALE FACTORS AT THE UNIVERSITY OF WASHINGTON BARROW, ALASKA CARBON DIOXIDE PROJECT

80	Date of Analysis	June 22, 1964	June 24, 1964	June 26, 1964	June 29, 1964	June 30, 1964
7	Scale Factor Wgtd. Avg.	1.791	1.783	1,175	1.649	1.532
9	Recorder Single Set	1.635	1.814	1.108	1.607	1.558
5	Index Diff.	1.70	3.12	0.41	0.98 0.98	4.72
4	No. of Compar- isons	9 10 10* 10*	13 10 12 10*	10 10 10 20	10 10 11, 10,	11 10 10 21
E.	Observed Scale Diff.	1.04 1.20 - 0.32 0.88	1.72 1.19 0.60 1.79*	0.37 1.38 - 1.05 0.33	0.61 1.25 - 0.67 0.58*	3.03 1.23 1.91 3.14
2	Compared Tank No.	18208 18207 18207 18208	11097 18207 18207 11097	7344 18207 18207 7344	10075 18267 18207 10075	10072 18207 182C7 10072
Co1: 1	Standard Tank No.	18206 18206 18208 18206	18206 18206 11097 18206	18206 18206 7344 18206	18206 118206 110075 18206	18206 18206 10072 18206

* See Text

TABLE 2a: RECORDER SCALE FACTORS AT THE UNIVERSITY OF WASHINGTON BARROW, ALASKA CARBUN DIOXIDE PROJECT

80	Date of Analysis	July 1, 1964	July 2, 1964	March 16, 1965	March 17, 1965	March 29, 1965
7	Scale Factor Wgtd, Avg.	1.668	1.591	1.755	1.782	1.871
9	Recorder Single Set	1.677	1.493	1.771	1.782	1.836
5	Index Diff.	3.89	1.03	29.35	4.17	20.43
4	No. of Compar-	11 11 7 7 7 18	10 10 10 20 20	11 12 12 22	10 10 10 20	10 10 10*
3	Observed Scale Diff.	2.32 1.09 1.26 2.35*	0.69 1.26 - 0.55 0.61	16.57 27.88 - 10.99 16.89*	2.34 - 1.42 3.76 2.34*	11.13 - 3.26 13.98 10.72*
2	Compared Tank	18206 18207 18207 18206	10066 18207 18207 10066	11111 10064 10064 11111	11097 10073 10073 11097	10064 10072 10072 10064
Co1: 1	Standard Tank	11589 11589 18206 11589	18206 18206 10066 18206	10071 10071 11111 10071	11111 11097	1111 11111 10064 11111
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* See Text

TABLE ²a: RECORDER SCALE FACTORS AT THE UNIVERSITY OF WASHINGTON BARROW, ALASKA CARBON DIOXIDE PROJECT

	8	Date of Analysis	March 30, 1965		March 30, 1965		March 31, 1965		/ Fril 1, 1965		October 19, 1965	
JE FRUELI	1	Scale Factor Wgtd. Avg.		1.860		1.870		1.888		1.855		1.784
BAKKOW, ALASKA CAKBON DIDAIDE FROJECT	9	Recorder Single Set	1.837	1.883	1.862	1.874	1.881	1.892	1.864	1.851	1.761	1.806
NKKUM, ALMSKA	5	Index Diff.	20.43	20.43	20.43	20.43	20.43	26.43	26.43	20.43	36.31	36.31
a a	4	No. of Compar-	9	6 6*	9	10	5	10* 10* 15	10	10,	10	10*
	3	Observed Scale Diff.	11.12	13.11	10.97	12.04	10.86	9.48	10.96	9.21* 11.06	20.62	6.23 20.11
	2	Compared Tank	10064	11097	10064	10066	10064	10073	10064	11669 10064	10065	10064
	1	Standard Tank	IIIII	10064	11111	10064	11111	10064	11111	10064	10070	10070
	Co 1:						- 40) <u> </u>				

* See Text

TABLE 2a: RECORDER SCALE PACTORS AT THE UNIVERSITY OF WASHINGTON BARROW, ALASKA CARBON DIOXIDE PROJECT

	90	Date of	Analysis		November 12, 1965					March 28, 1966				•	April 27, 1966				,	June 13, 1966				,	September 12, 1966			
DE PROJECT	7	Scale	Factor Word Ave	- Proc. Ovb.				1.880					1.805					1.821					1.956					1.822
CARBON DIOXI	9	Recorder	Single	1 003	7.460		1.876		, 600	700.1		1.808		1 830	7.020		1 821	1,011	1 020	006.1		1.952		000	070.7		1.823)
PARACH, ALABAR CARBON DIOXIDE PROJECT	5	Index	Diff.	36 21	****		36.31		16 31	1		36.31		36 33	4000		36.31	•	36.31	10:00		36.31		16 35			36.31	[
	7	No. of	Compar- 1sons	01	10	10	10*	20	10	10	10	10	20	10	10	10	10*	20	10	10	10	10*	20	01	10	0.7	*01	20
•	7	Observed	ocale Diff.	19.28	13.52	5.84	19.36*		20.15	14.23	5.85	20.08		19.95	13.94	6.00	19.94*		- 18.53	- 12.85	5.75	- 18.60*		- 19.95	- 13.91	6.01	- 19.92*	
,	7	Compared	No.	10065	10064	10064	10065		10065	10064	10064	10065		10065	10064	10064	10065		10065	10064	10064	10065		10065	10064	10064	10065	
1 , 1,	.l_	Standard	No.	10070	10070	10065	10070		10070	10070	10065	10070		10070	10070	10065	10070		10070	10070	10065	10070		10070	10070	10065	10070	
Ç)		1										-	- 4	1	-												

*See Text

TABLE 2a: RECORDER SCALE FACTORS AT THE UNIVERSITY OF WASHINGTON BARROW, ALASKA CARBON DIOXIDE PROJECT

8	Date of Analysis	October 20, 1966		December 22, 1966		March 10, 1967		April 21, 1967		May 4, 1967	
1	Scale Factor Wetd, Avg.		1.849		1.848		1.850		1.844		1.872
9	Recorder Single Set	1.847	1.850	1.848	1.847	1.853	1.847	1.853	1.835	1.872	1.871
S	Incer Diff.	36.31	36.31	36.31	36.31	36.31	36.31	36.31	36.31	36.31	36.31
4	No. of Compar-	10	10 10*	10	10 10 20	10	10 10*	10	10*	20 00 (36 *8
۳,	Observed Scale	- 19.66 - 13.76	5.87 - 19.63*	- 19.65	5.93 - 19.66*	- 19.60	5.92 - 19.66*	- 19.59	5.99	- 19.40	5.80
•	Compared	3000	10064	10065	10064	10065	10064	10065	10064	10065	10064
-	Sta	10070	10070	10070	10065 10070	10070	10065	10070 10070	10065 10070	10070	10065
ć	3										

* See Text

TABLE 2a: RECORDER SCALE FACTORS AT THE UNIVERSITY OF WASHINGTON BARROW, ALASKA CARBON DIOXIDE PROJECT

οα	Date of Analysis	June 13 1967					December 22 1967		
7	Scale Factor Watd. Avg.					1.838			1.886
6	Recorder Single Set	1.838			1.838		1,908	1.846	1,904
5	Index Diff.	36.31			36.31		36.31	24.05	3.98
7	No. of Compar- isons	9	10	•	*8	14	10	10	10
٣	Observed S e Darf.	- 19.75	- 13.63	5.93	- 19.76*		- 19.03	13.03	2.09
2	Compared Tank No.	10065	10065	10064	10065		10065	1001	10072
Col: 1	Standard Tank No.	10070	10070	10065	10070		10070	10070	10070

* See Text

TABLE 3: SUMMAN: OF RECORDER SCALE FACTORS
BARROW, ALASKA CARBON DIOXIDE PROJECT

Standard Compared No. of Recorder Scale Recorder Scale Analysed 261:	-	2	3	4	5	9	7	80	
148 10072 15.69 30 2.56 29.89 15.72 39 2.56 29.89 15.74 6 2.55 30.12 15.74 6 2.55 30.23 15.74 6 2.55 30.23 15.74 15.35 20 4.27 29.77 15.64 44 44.19 29.72 15.60 4 4.20 29.70 15.63 8 4.19 29.62 15.63 8 4.18 29.96 15.63 8 4.18 30.20 15.63 15.67 14 4.18 30.20 15.63 15.63 2 4.40 30.02 15.28 2 4.40 29.94 15.28 2 4.40 29.94 15.28 2 4.20 29.63		Standard Tenk No.	Compared Tank No.	Observed Scale Diff.	No. of Compar- 1sons	Recorder Single Set	t t	Adjusted Recorder Scale Factor	Date of Analysis
15.72 39 2.56 29.89 15.91 45 2.52 30.12 15.74 6 2.55 30.12 15.74 6 2.55 30.23 30.23 15.74 10064 15.35 20 4.27 29.77 15.64 44 4.19 29.77 15.54 27 4.19 29.77 15.65 9 4.19 29.62 15.67 14 4.18 30.20 15.68 2 4.18 30.20 15.71 11 4.17 30.16 15.72 15.35 2 4.40 30.02 15.28 2 4.40 29.94 15.28 2 4.20 29.94 15.28 2 4.20 29.94 15.28 2 29.94 15.28 2 29.94 15.28 2 29.94 15.28 2 29.94 15.28 2 29.63	70 70 71		1.0072	15.69	30	2.56	29.89	2.55	July 10, 1961
15.91 45 2.52 30.12 15.74 6 2.55 30.23 30.23 15.74 6 2.55 30.23 30.23 30.23 15.64 44 44.27 29.77 15.54 27 4.21 29.77 15.56 9 44.20 29.70 15.63 8 4.19 29.62 15.63 8 4.19 29.64 15.65 15.68 2 44.28 29.94 15.68 2 44.18 30.20 15.71 11 44.17 30.16 15.71 11 44.17 30.16 15.28 15.35 2 44.0 29.94 15.35 2 44.0 29.94 15.35 2 44.0 29.94 15.35 2 44.0 29.94 15.28 2 44.0 29.94 15.28 2 5.57 2 7 4.21 29.33				15.72	39	2.56	29.89	2,55	12
15.74 6 2.55 30.23 Weighted Average R. S. 1905.4 15.35 20 4.27 29.77 15.64 44 4.19 29.77 15.56 4 4 4.20 29.77 15.56 9 4.19 29.72 15.67 14 4.18 29.96 15.68 2 4.18 30.20 15.68 2 4.18 30.20 15.71 11 4.17 30.16 15.28 2 4.40 30.02 15.28 2 4.20 29.94 15.28 2 4.20 29.94 15.28 2 4.20 29.94 15.28 2 29.63				15.91	45	2.52	30.12	2.53	13
Weighted Average R. S. 19674 15.35 20 4.27 29.77 15.64 44 4.19 29.77 15.60 4 4.20 29.70 15.63 9 4.19 29.62 15.63 14 4.19 29.62 15.64 2 4.18 29.96 15.68 2 4.18 30.20 15.68 2 4.18 30.20 15.68 2 4.18 30.20 15.68 2 4.18 30.20 15.68 2 4.19 29.96 15.68 2 4.23 29.94 15.68 2 4.23 29.94 15.68 2 4.29 30.02 15.71 11 4.17 30.16 15.72 15.35 3 4.40 29.94 15.28 2 29.63				15.74	9	2.55	30.23	2.57	14
19074 10064 15.35 20 4.27 29.77 15.64 44 42.19 29.77 15.64 44 42.19 29.77 15.60 4 4.20 29.70 15.60 4 4.20 29.70 15.63 8 4.19 29.62 15.63 15.67 14 4.18 29.96 15.48 2 4.18 30.20 15.68 2 4.18 30.20 15.71 11 4.17 30.16 15.71 11 11 4.17 30.16 15.25 25.25 4.20 29.94 15.35 3 4.40 29.94 15.35 3 15.26 29.94 15.35 2 29.94 29.63 15.35 27 4.21 29.33					Wei	ghted Avera	R. S.	Justed) for Period	1 = 2.54
15.64 44 4.19 29.77 15.54 27 4.21 29.72 15.60 4 4.20 29.70 15.63 9 6.21 29.58 15.63 14 4.18 29.96 15.48 2 4.18 30.20 15.68 2 4.18 30.20 15.71 11 4.17 30.16 15.71 11 4.17 30.16 15.72 15.35 2 4.40 29.94 15.28 2 4.29 29.63 15.28 2 4.29 29.63	Log 3		10064	15.35	20	4.27	29.77	4.24	July 14, 1961
15.54 27 4.21 29.72 15.60 4 4.20 29.70 15.60 9 6.21 29.78 15.63 8 4.19 29.62 15.63 15.67 14 4.18 29.96 15.48 2 29.94 15.68 2 4.18 30.20 15.71 11 4.17 30.16 15.71 11 4.17 30.16 15.28 2 4.40 29.94 15.28 2 6.29.94 15.28 2 6.29.94 15.28 2 6.29.94 15.28 2 6.29.93				15.64	77	4.19	29.77	4.16	
15.60 4 4.20 29.70 15.56 9 6.21 29.58 15.63 8 4.19 29.62 15.68 2 4.23 29.94 15.68 2 4.18 30.20 15.71 11 4.17 30.16 15.71 11 4.17 30.16 15.72 15.35 2 4.40 30.02 15.28 2 4.29 29.63 15.28 2 4.29 29.63				15.54	27	4.21	29.72	4.17	11
15.56 9 4.21 29.58 15.63 8 4.19 29.62 15.67 14 4.18 29.96 15.48 2 4.23 29.94 15.68 2 4.18 30.20 15.71 11 4.17 30.16 15.71 15.35 2 4.40 30.02 15.28 2 4.29 29.63 15.28 2 4.29 29.63 15.57 27 4.21 29.33				15.60	7	4.20	29.70	4.16	19
15.63 8 4.19 29.62 15.67 14 4.18 29.96 15.48 2 4.23 29.94 15.68 2 4.18 30.20 15.71 11 4.17 30.16 Weighted Average R. S. F. 15.28 2 4.40 30.02 15.28 2 4.20 29.63 15.28 2 4.21 29.33				15.56	6	4.21	29.58	4.15	20
15.67 14 4.18 29.96 15.48 2 4.23 29.94 15.68 2 4.18 30.20 15.71 11 4.17 30.16 Weighted Average R. S. F. 15.35 2 4.40 30.02 15.28 2 4.20 29.63 15.28 2 4.21 29.33				15.63	&	4.19	29.62	4.14	21
15.48 2 4.23 29.94 15.68 2 4.18 30.20 15.71 11 4.17 30.16 Weighted Average R. S. F. 15.28 2 4.40 30.02 15.28 2 4.29 29.63 15.57 27 4.21 29.33				15.67	14	4.18	29.96	4.17	23
15.68 2 4.18 30.20 15.71 11 4.17 30.16 Weighted Average R. S. F. 15.35 2 4.40 30.02 15.28 2 4.20 29.63 15.57 27 4.21 29.33				15.48	2	4.23	29.94	4.22	24
15.71 11 4.17 30.16 Weighted Average R. S. F. 10070 15.35 2 4.40 30.02 15.28 2 4.20 29.63 15.28 2 4.29 29.63				15.68	2	4.18	30.20	4.21	26
Meighted Average R. S. F. 10070 3004 15.35 2 4.40 30.02 15.35 3 4.40 29.94 15.28 2 4.29 29.63 15.57 27 4.21 29.33				15.71	11	4.17	30.16	4.19	27
10070 10045 15.35 2 4.40 30.02 15.35 3 4.40 29.94 15.28 2 4.29 29.63 15.57 27 4.21 29.33					We	1ghted Aver	R. S. F.	djusted) for Perio	d 2 = 4.18
.35 3 4.40 29.94 .28 2 4.29 29.63 .57 27 4.21 29.33	ind 3		\$ 9000 \$	15.35	2	4.40	30.02	4.40	July 28, 1961
.28 2 4.29 29.63 .57 27 4.21 29.33				15.35	٣	07.7	29.94	4.39	
.57 27 4.21 29.33				15.28	2	4.29	29.63	4.23	30
				15.57	27	4.21	29.33	4.11	31

Weighted Average R. S. F. (Adjusted) for Period 3 = 4.16

TABLE 3 : SUMMARY OF RECCRDER SCALE FACTORS
BARROW, ALASKA CARBON DIOXIDE PROJECT

Standard Compared No. of Recorder Scale Factor Recorder Scale Analysis Factor Analysis Analysis Factor	Co1:		2	3	7	5	9	7	8
riod 4 10069 10065 6.11 34 2.49 29.73 2.46 August 2, 1 2.47 29.75 2.45 4.43 29.84 2.43 4.4 29.84 2.43 4.4 29.84 2.43 4.4 29.84 2.43 4.4 29.84 2.43 4.4 29.84 2.43 4.4 29.84 2.43 4.4 29.84 2.43 4.4 29.84 2.43 4.4 29.84 2.43 4.4 29.84 2.43 4.4 29.84 2.43 4.4 29.84 2.43 4.4 29.90 3.37 August 7, 1 3.38 30.07 3.37 August 7, 1 3.38 30.06 3.39 3.43 3.43 3.43 3.43 3.43 3.43 3.43		Standard	Compared	Observed	No. of	Recorder	Scale Factor	Adjusted Recorder Scale	Date of
riod 4 10069 10065 6.11 34 2.43 29.73 2.46 August 2, 1 2.47 29.75 2.45 29.75 2.45 29.75 2.45 29.75 2.45 29.84 2.43 3 2.45 29.84 2.43 4 4 2.43 29.84 2.43 2.43 4 4 2.43 29.84 2.43 2.43 4 2.43 29.96 2.62 2.62 2.65 30.07 2.76 30.07 2.76 30.07 2.76 30.07 2.77 2.77 2.76 30.07 2.77 2.77 2.77 2.77 2.77 2.77 2.77		No.	No.	Diff.	Isons	Set	(inches)	Factor	ALICA I DATO
Fig. 100 Fig. 100	Period 4	10069	10065	6.11	34	2,48	29.73	2.46	7
## 6.20				6.12	21	2.47	29.75	2.45	
10077 12.36				6.20	2	2.44	29.84	2.43	7
riod 5 10069 6074 5.84 11 2.28 29.90 2.77				5.75	13	2.63	29.96	2.62	5
11.87 10 2.76 30.07 2.77 7			10077	12.36	4	2.65	30.10	2.66	9
riod 5 10069 10077 9.75 2 3.36 30.07 3.37 August 7, 1 3.38 30.06 3.39 8 8 9.53 6 3.44 29.91 3.43 3.43 9.75 1 3.37 August 7, 1 3.38 30.06 3.44 29.91 3.43 3.43 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.3				11.87	10	2.76	30.07	2.77	7
10069 10077 9.75 2 3.36 30.07 3.37 August 7, 11 3.38 30.06 3.39 3.39 8 9.50 1.00 9.50 1.00 1					Wei	ghted Averag	R. S.	Justed) for Period	i 4 = 2.53
9.70 1 3.38 30.06 3.39 8 9.53 6 3.44 29.91 3.43 9.56 5 3.44 29.91 3.43 9.57 3 3.38 29.90 3.37 9.87 21 3.32 29.97 3.32 9.75 12 3.34 29.75 3.31 9.75 12 3.34 29.75 3.33 16 9.75 12 3.34 29.75 3.33 17 Weighted Average R. S. F. (Adjusted) for Period 5 = 3.29 riod 6 10069 6074 5.84 11 2.28 29.96 2.13 August 17, 6.13 7 2.17 29.69 2.15 19	Period 5		1001	9.75	2	3.36	30.07	3.37	
## 19.53				9.70	۲.	3.38	30.06	3.39	
## 19.56 5 3.443 29.83 3.41 11 9,70 3 3.38 29.90 3.37 13 9,70 3 3.38 29.90 3.37 13 9,80 17 3.34 29.73 3.31 15 9,75 12 3.36 29.75 3.33 16 9,80 1 3.34 29.75 3.33 16 14 3.34 29.75 3.33 16 15 3.34 29.75 3.33 16 16 3.34 29.75 3.32 14 Weighted Average R. S. F. (Adjusted) for Period 5 = 3.29 riod 6 10069 6074 5.84 11 2.28 29.86 2.13 August 17, 18 6.23 6 2.14 29.86 2.13 18 6.13 7 2.17 29.69 2.15 19				9.53	9	3.44	29.91	3.43	6
## 13.38 29.90 3.37 13 13 13 13 13 13 13	_			9.56	Ŋ	3.43	29.83	3.41	11
## 19.87	45			9.70	٣	3,38	29.90	3.37	13
10069 6074 5.84 11 2.28 29.90 3.33 18 15 15 16 10069 6074 5.84 11 2.28 29.86 2.13 8.83 18 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	5			9.87	21	3.32	29.97	5.32	14
10069 6074 5.84 11 2.28 29.90 3.33 16 17, 66.23 6.13 7 2.17 29.69 3.33 16 17, 66.13 7 2.17 29.69 2.15 19	_			9.80	17	3.34	29.73	3.31	15
10069 6074 5.84 11 2.28 29.90 3.33 17 Weighted Average R. S. F. (Adjusted) for Period 5 = 3.29 6.23 6 2.14 29.86 2.13 18 6.13 7 2.17 29.69 2.15 19				9.75	12	3.36	29.75	3.33	16
Meighted Average R. S. F. (Adjusted) for Period 5 = 3.29 10069 6074 5.84 11 2.28 29.90 2.27 August 17, 6.23 6 2.14 29.86 2.13 18 6.13 7 2.17 29.69 2.15 19				9.80	п	3.34	29.90	3.33	7.1
10069 6074 5.84 11 2.28 29.90 2.27 August 17, 6.23 6 2.14 29.86 2.13 18 18 6.13 7 2.17 29.69 2.15 19					ž	aghted Avere	R. S. F.	djusted) for Perio	٠ <u>٠</u>
6.23 6 2.14 29.86 2.13 6.13 7 2.17 29.69 2.15	Period 6	10069	709	5.84	11	2.28	29.90	2.27	
7 2.17 29.69 2.15				6.23	9	2.14	29.86	2.13	
				6.13	7	2.17	29.63	2.15	19
					:			30410 1 104 (manofine)	•

TABLE 3 : SUMMARY OF RECORDER SCALE FACTORS
BARROW, ALASKA CARBON DIOXIDE PROJECT

Co1:		2	3	97	5	9	7	œ	- !
	Standard	Compared	Observed	No. of	Recorder	Scale Factor	Adjusted	Date of	
	lank No.	Jank No.	Scale Diff.	Compar- 1sons	Set	finches)	Recorder Scale Factor	AMALYSIS	!
Period 7	10069	6074	5.00	\$	2.66	29.74	2.64	August 22, 1961	
			7.90	7	2.72	29.90	2.71		
			4.91	7	2.71	30.02	2.71	24	
			5.24	•	2.54	29.80	2.52	27	
			5.05	10	2.64	29.89	2.63	28	
			5.20	41	2.56	29.82	2.54	29	
			5.05	2	2.64	29.72	2.61	30	
			5.05	-	2.64	29.72	2.61	31	
			5.04	6	2.64	29.80		September 1	
			5.00	7	2.66	29.80	2.64	2	
			5.14	28	2.59	29.47	2.54	\$	
			5.00	32	2.66	29.44	2.61	9	
			5.00	7	2.66	29.44	2.61	7	
			5.01	œ	5.66	29.50	2.61	6	
			5.00	7	2.66	29.84	2.64	13	
			5.21	7	2.55	29.76	2.53	16	
			2.00	7	2.66	29.89	2.65	18	
				Wei	Weighted Average	R. S.	F. (Adjusted) for Period 7	od 7 = 2.59	
Period 8	6074	3755	3.81	۰	1.45	29.89	1.44 S	September 22, 1961	
			3.95	-	1.40	29.43	1.37	23	
			3.60	2	1.53	29.60	1.51	24	
			4.00	S	1.38	30.00	1.38	25	
			4.15		1.33	30.05	1.33	26	
			3.98	iΩ	1.39	29.80	1.38	27	
			3.85	-	1.43	29.80	1.42	28	
			3.89	7	1.42	30.04	1.42	29	

TABLE 3 : SUMMARY OF RECORDER SCALE FACTORS
BARROW, ALASKA CARBON DIOXIDE PROJECT

Co1:	1	2	3	4	5	9	2	8
	Standard Tank No.	Compared Tank No.	Observed Scale Diff.	No. of Compar- isons	Single Set	Scale Factor Bar, Press. (inches)	Adjusted Recorder Scale Pactor	Date of Analysis
Period 8	7409	3755	3.95	4.5	1.40	29.83	1.39	November 1, 1961
			3.90	7 7	1.39	29.91 29.86	1.39	72 E
			3.97	2	1.39	29.82	1.38	7
			3.93	2	1.40	30.05	1.40	. nJ
			3.90	2	1.41	30.20	1.42	9
Period 9	6074	3756	1.10	3	1.57	29.96	1.57	November 8, 1961
			1.10	2	1.57	29.66	1.55	ŝ
			1.10	2	1.57	29.44	1.54	10
			1.10	1	1.57	29.43	1.54	T
			1.10	en	1.57	29.34	1.54	13
				We1	Weighted Average		R. S. F. (Adjusted) for Period 9 = 1.55	1 9 = 1.55
Period 10	709	3756	1.32	16 26	1.31	29.45 30.11	1.29	November 14, 1961 25
				We1₅	Weighted Average	R. S.	F. (Adjusted) for Period 10 = 1.28	10 - 1.28
Period 11	9 /09	3756	1.17	ν·	1.48	29.93 29.60	1.48	November 27, 1961 28
			1.18	2	1.47	29.78	1.46	29

SUMMARY OF RECORDER SCALE PACTORS
BARROW, ALASKA CARBON DIOXIDE PROJECT TABLE 3 :

Stan	Standard	2 Compared	3 Observed	No. of	Secorder	6 Scale Factor	7 Adjusted	8 Date of	1
Tank No.	- 1	Tank No.	Scale Diff.	Compar- isons	Single Set	Bar. Press. (inches)	Recorder Scale Factor	Analysis	1
6074		3755	3.89	7	1.42	30.14	1.43	October 1, 1961	
			3.79	11	1.46	29.76	1.45	2	
			3.79	13	1.46	29.61	1.44	m	
			3.82	ဆ	1.44	29.79	1.43	4	
			4.00	٣	1.38	30.19	1.39	80	
			4.00	7	1.38	30.33	1.40	Φ	
			3.84	4	1.44	30.16	1.45	10	
			3.86	œ	1.43	30.08	1.43	11	
			4.00	-	1.38	30.07	1.38	13	
			4.17	7	1.32	29.94	1.32	13	
			3.90	2	1.41	29.90	1.40	3.4	
			3.90	-	1.41	29.91	1.41	15	
				7	1.41	29.61	1.39	16	
				2	1,41	29.65	1.39	1.	
				-	1.41	30.00	1.41	18	
			3.90	7	1.41	29.55	1.39	19	
				٣	1.43	29.57	1.41	20	
				7	1.41	29.32	1.38	23	
				2	1.43	29.36	1.40	22	
				7	1.44	29.67	1.42	24	
				7	1.43	29.54	1.41	25	
				2	1.38	29.65	1.36	26	
				2	1.40	29.78	1.39	27	
			3.90	2	1.41	29.75	1.40	28	
				2	1.40	29.85	1.39	29	
				2	1.38	30.18	1.39	30	
			3.93	2	1.40	29.96	1.40	31	

TABLE 3 : SUMMARY OF RECORDER SCALE FACTORS
BARROW, ALASKA CARBON DIOSIXE PROJECT

Col:	1	2	3	7	5	9	7	8
-	Standard Tank	Standard Compared Tank Tank	Observed Scale	No. of Compar-	Recorder	Recorder Scale Factor Single Bar. Press.	Adjusted Recorder Scale	Date of Analysis
	No.	No.	D1ff.	isons	Set	(inches)	Factor	
Period 11 6074	6074	3756	1.20	7	1.44	29.62	1.42	December 1, 1961
			1.14	ۍ	1.52	29.68	1.50	, "
			1.22	10	1.42	29.82	1.41	4
			1.20	2	1.44	30.01	1.44	ίΛ
			1.20	7	1.44	30.43	1.46	7
			1.25	4	1.38	30.46	1.40	ω
			1.20	m	1.44	30.00	1.44	6
			1.20	~	1.44	29.81	1.43	10
			1.15	٣	1.50	29.87	1.49	12
			1.15	2	1.50	30.23	1.51	13
-			1.15	1	1.50	30.44	1.52	16
49 -				Wei	ighted Avera	age R. S. F. (A	Weighted Average R. S. F. (Adjusted) for Period $1i=1.45$	d 11 = 1.45

TABLE 3a: SUMMARY OF RECORDER SCALE FACTORS - MUTUAL COMPARISON HETHOD BARROW, ALASKA CARBON DIOXIDE PROJECT

1	ļ																								
		1962		1962																					
		46		17,	24	52	28	29	59	19	56	28	9	23	7	10	20	7	11	21	7	4	6	11	19
~	Date of Analysis	Januery		January	March			Apr11		May			June		July			August			September	October			
9	Adjusted Recorder Scale Factor	1.6	rage - 1.63	2.49	2.50	2.48	2.50	2.53	2.55	2.49	2.50	2.48	2.54	2.54	2.49	2.58	2.49	2.55	2.49	2.49	2.50	2.49	2.53	2.55	2.55
5	Barometric Pressure (inches)	30.29 30.51	Weighted Average	30.59	30.13	29.90	29.70	30.25	30.25	29.84	29.67	30.18	29.61	30,00	29.87	29.74	29.89	29.98	29.98	30.01	30.01	29.98	30.01	29.97	29.62
7	Scale Factor Wgtd. Average	1.62	3	2.44	2.49	2.49	2.53	2.51	2.53	2.51	2.51	2.47	2.57	2.54	2.50	2.60	2.50	2.55	2.49	2.49	2.50	2,49	2.53	2.55	2.56
3	No. of Compar- 1sons	18		34	10	15	16	20	19	19	20	13	20	20	20	20	20	20	20	20	20	10	10	10	10
2	Compared Tank No.	3756		1001	10073	1001	10068	1,0068	6078	6078	6078	10068	3757	3757	3757	2427	2427	2427	2426	3756	3756	7351	7351	7351	7351
-	Standard Tank No.	2 10063		Period 13 10063																					
Co1:		Period 12		Period 1				50																	

Weighted Average =

TABLE 3a: SUPMARY OF RECORDER SCALE FACTORS - MUTUAL COMPARISON METHOD BARROW, ALASKA CARBON DIOXIDE PROJECT

1		, 1962			, 1963														
		13,			12,		91		20	9	18	19	18	53	S	9	29	10	21
7	Date of Analysis	November	December		January	February	March	April	•	May			June		July			August	
9	Adjusted Recorder Scale Factor	2.48	2.46	- 2.48	2.46	2.43	2.51	2.52	2.50	2.45	2.46	2.37	2,33	2.32	2.44	2.43	2.43	2.42	2.4.0
\$	Barometric Pressure (inches)	30.01	30.05	Weighted Average	30.04	30.06	29.77	30.33	30.34	29.51	29.99	29.99	30.06	29.93	29.96	30.00	30.03	30.10	29.97
7	Scale Factor Wgtd. Average	2.48	2.46	Weig	2.46	2.43	2.53	2.49	2.47	2.49	2.46	2.37	2.33	2.33	2.44	2.43	2.43	2.41	2.40
3	No. of Compar- isons	10	10		20	16	19	20	20	20	20	20	20	20	20	20	20	19	19
2	Compared Tank No.	7351	7351		10072	4278	4286	4286	7362	7362	7362	4284	4284	4284	4272	3757	18204	18204	18204
1	Standard Tank No.	Period 14 10063			Period 15 10063														
Co1:		Period			Period			-	- (51	-								

TABLE 3b: SUMMARY OF RECORDER SCALE FACTORS - MUTUAL COMPARISON METHOD BARROH, ALASKA CARBON DIOXIDE PROJECT

}	i	1965			1966
		2, 8 113 21 111 23	*()	∞	21 22 21 21 26 3,
7	Date of Analysis		1.16	June	June August August September October November January
9	Adjusted Recorder Scale Factor	2.37 January 2.20 2.42 2.26 2.04 February 2.40 March R. S. F. for Period = 2.28	1. S. P. for Period = (1.16)*	2.50	4.76 4.82 4.82 4.79 4.79 4.76 4.74
\$	Barometric Pressure (inches)	1037.5 1041.6 1020.0 1014.5 1026.0 1024.3	Average R.	1015.7	1018.2 1004.4 996.2 1017.9 1026.8 1003.9 1031.3 997.2 1015.8
4	Scale Factor Weighted Average	2.32 2.16 2.41 2.27 2.02 2.38 Weigh		2.49	4.75 4.75 4.75 4.74 4.74 4.75 4.76
3	No. of Compar- isons	20 20 20 9 (9		20	20 20 20 20 20 20 20
2	Compared Tank No.	18206 18206 18207 18207 18208 18208		10011	10071 10071 10071 10071 10071 10071 10071 10071
1	Standard Tenk No.	11589 11589 11589 11589 11589		11589	
ડ ડા:		Period 1	Period 2	Period 3	Period 4

* Recorder Scale Factor in parenthesis was used in the reduction of air data because of recorder scale change. Weighted Average P. S. F. for Period - 4.75

TABLE 3b: SUMMARY OF RECONDER SCALE PACTORS - MUTUAL COMPARISON METHOD BARROW, ALASKA CARBON DIOXIDE PROJECT

1		9, 1966														1961			
	60	9,		7	~	12	24	3	∞	30	r26		10	۳	9	2,	16		25
7	Date of Analysis	March	d = 4.52	Мау	June			July	August)	September26	od = 3.91	October	November	December	January	•	February	•
9	Adjusted Recorder Scale Pactor	4.52 4.53	Weighted Average R.S.P. for Period = 4.52	3.95	3.76	3.85	3.84	3.90	3.94	4.02	4.00	Weighted Averape $R.S.F.$ for Period = 3.91	3.61	3.45	3.50	3.46	3.37	3.46	3.38
S	Barometríc Pressur: (inches)	1032.2 1019.8	hted Average	1014.5	1019.6	1010.7	998.5	1023.7	1021.7	1015.7	1007.6	shted Averap	1017.1	1028.9	1024.0	1014.8	1022.3	1022.4	1018.8
4	Scale Factor Weighted Average	4.45 4.51	We18	3.96	3.75	3.87	3.91	3.87	3.92	4.03	4.04	Weig	3.60	3.40	3.46	3.47	3.35	3.44	3.37
6	No. of Compar- 1sons	20 20		20	20	20	20	20	20	20	20		20	20	20	20	20	20	20
2	Compared Tank No.	10071 10071		10011	1001	1001	10071	1001	10071	1001	10071		10071	1001	1001	1001	1001	1001	1001
1	Standard Tank No.	11589 11589		11589	1.1589	11589	11589	11589	11589	11589	11589		0 11589	11589	11589	11589	11589	11589	11.589
: [0]		Period 6		Period 8			-	53	3 -				Period 10						

TABLE 3b: SUPPLARY OF RECORDER SCALE PACTORS - MUTUAL COMPARISON METHOD BARROW, ALASKA CARBON DIOXIDE PROJECT

%1 :	-	7	E	4	5	9	7	
	Standard Tank No.	Compared Tank No.	No. of Compar- isons	Scale Factor Weighted Average	Barometric Pressure (inches)	Adjusted Recorder Scale Factor	Date of Analysis	•
Period 12	2 11589 11589	10071	20 20	2.78	1015.5 1018.9	2.78	March Apr11	27, 1967 8
				Welg	hted Average	Weighted Average R. S. F. for Period = 2.76	10d = 2.7	١٥.
Period 14		10071	20	3.57	1011.3	3.56	Apr11	20
		10071	20	3.57	1008.2	3.55	Hey	17
	11589	10071	20	3.62	1020.0	3.64	June	6
	11589	1001	20	3.63	1021.2	3.65	July	-
- 54				Weig	hted Average	Weighted Average R. S. F. for Period = 3.60	10d = 3.60	•
Period 15	5* 11589	10071	20	3.76	6.966	3.69	July	20
11589	11589	10071	18	3.45	1014.6	3.45	August	7
				Weig	hted Average	Weighted Average R. S. F. for Period = 3.55 (1.78)*	10d = 3.50	5 (1.78)*
Period 17* 11589 11589	7* 11589 11589	10071	20 20	3.21	1000.5	3.19	September 4	er 4 18
				Weig	hted Average	Weighted Average R. S. F. for Period = 3.20 (1.60)*	10d = 3.20	(1.60)*

* Recorder Scale Factor in parenthesis was used in the reduction of air data because of recorder scale change.

SUMMARY OF RECORDER SCALE FACTORS - SLIDING RECORDER SCALE FACTORS BARROW, ALASKA CARBON DIOXIDE PROJECT TABLE 3c:

2	Recorder Scale Pact or	4.71	4,70	6.69	89.7	79.7	99.4	4.65	79.7	79.4	6.3 	70° a	10.4	95.4	65.77	35. is	4.58	4.57	4.57	4.35	4.35 5.4	4.55 4.54	4.38 4.54 4.53	4, 4 4, 53 8, 53	4.38 4.54 4.53 4.53	\$6.4 \$2.4 \$6.4 \$3.4 \$3.4 \$3.4	4.35 4.53 4.53 4.53 4.53	4.35 4.54 4.53 4.53
1	4. 4. 7. 1.	Francista 9, 1966	. <u>31</u> 2	ng mg	37	bir iy		0, 18		\$ T Y		(was the		5 U.S.			a: e:	だった。		***	w. a	માં એ જે	જ જ જે હ	~ 5 ~ ~ ~ ~ .	જ જો કો હતા છે.	শহৰু কা আন চন এ	જ જ છે આ ેક શ	17 No 18 No 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No.
Co.1;		Period 5							•	ር. ና _ን																		

TABLE SOLE SUBMARY OF RECORDER SCALE FACTORS - SOIDING RECORDER SCALE FACTORS SARBOW, ALASKA CAPRON DIOXIDE PROJECT

(01):		2
	140	Mecorder Scale Man on
Per 104-7	March 25, 1966 26 27 28 29 30 33	4,51 4,56 6,49 4,47 74,4 6,4,6
- 56 -	Aprel 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4-1-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4
	21	4.16

TABLE 3c: SUMMARY OF RECORDER SCALE FACTORS - SLIDING RECORDER SCALE BARROW, ALASKA CARBON DIOXIDE PROJECT

Co1:		1	2
	-	Date	necorder Scale Factor
Period 7	Apr []	22, 1966 23 24 25 26 27 28 29	4.15 4.14 4.11 4.16 4.07 4.05
	Мау	55 44 33 25 3	4.01 3.99 3.98 3.97 3.95
Period 9	September	27 28 29 30	3.88 3.84 3.77
	October	13 5 7 4 4 3 3 5 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.74 3.70 3.67 3.63 3.56 3.56

TABLE 3c: SUMMARY OF RECORDER SCALE PACTORS - SLIDING RECORDER SCALE BARROW, ALASKA CARBON DIOXIDE PROJECT

12 13 14 15 16 17 19 20 21 22 23

Period 11

- 58 ~

Period 7

3

SUMMARY OF RECORDER SCALE FACTORS - SLIDING RECORDER SCALE FACTORS BARROW, ALASKA CARBON DIOXIDE PROJECT TABLE 3c:

Col:		1		2
	S.C.	Date		Recorder Scale Factor
Period 11	March	25, 1 26 27	1967	2.83 2.80 2.78
Period 13	April	8 6 111 11 11 11 11 11 11 11 11 11 11 11		2.83 2.90 3.04 3.10 3.24 3.38 3.44
Period 16	August	20 20 20 30 44 44 44 44 44 44 44 44 44 44 44 44 44		3.55 1.77 1.76 1.76 1.75 1.74 1.73

TABLE 3c: SUPPARTY OF RECORDER SCALE PACTORS - SLIDING RECORDER SCALE PACTORS
BARROW, ALASKA CARBON DICKIDE PROJECT

Co1:	1	:	2
	Date		Recorder Scale Pactor
Period 16	August 13,	1967	1.72
	14		1.71
	35		1,71
	15		1.70
	17		1.70
	18		1.69
	19		1.69
	20		1.68
	21		1.68
	22		1.67
	23		1.67
	24		1.66
	25		1.66
	26		1.65
	27		1,65
	28		1.64
	29		1.64
	30		1.63
	31		1.63
	September 1		1.62
			1.62
	m		1,61

TABLE 4: INDEX VALUES OF WORKING REFERENCE GASES BARROW, ALASKA CARBON DIOXIDE PROJECT

Date of Analysis	S10 Report	Tank No.	No. of Runs	Index	Cum. Runs	Cum. Index	Date of Analysis	SIO Report	Tank No.	No. of Runs	Index	Cum. Rune	Cum. Index
	2	1						Q];		
			Primary Ta	Tanks - Preffeld	leld			되	Primary Tanks	nks - Postfleid	rield		
12-07-61	2	10070	10	314.95	10		04-19-68	*	10070	20	314.80	222	314.95
12-18-61	'n	10070	11	314.80	21								
02-02-62	ท	10070	11	314.89	32								
04-11-62	'n	10070	10	315.14	77								
04-13-62	Ś	10070	10	315.15	25								
04-13-62	'n	10070	11	315.20	63								
04-17-62	'n	10070	6	315.21	72								
04-24-62	Ś	10070	10	315.09	83								
04-26-62	'n	10070	01	315.08	92								
04-27-62	Ś	10070	CI	315.16	102								
05-05-62	•	10070	11	314.82	113								
10-25-63	^	10070	10	314.82	123								
10-28-63	~	10070	11	314.86	134								
11-11-63	7	10070	10	315.27	144								
11-12-63	7	10070	10	314.84	154								
11-13-63	7	10070	10	314.94	164								
08-23-65	6	10070	ω	314.76	172	315.00							
01-27-67	1	30474	10	315.33	10								
02-07-67	11	30474	12	315.40	22								
02-07-67	#	30474	10	315.42	32								
02-13-67	=	30474	10	315.34	77								
02-13-67	11	30474	10	315.32	25								
02-16-67	11	30474	10	315.37	62								
02-16-67	=	30474	10	315.36	72								
02-20-67	11	30474	10	315.30	82								
02-20-67	11	30476	11	315.29	93								
02-20-67	11	304	6	315.28	102	315.34							
							04-19-68	*	11589	23	314,49	53	314.59
											•	,	
*													
	Letter dated 04-19-68	19-68											

TABLE 4: INDEX VALUES OF WORKING REFERENCE CASES
BARROW, ALASKA CARBON DIOXIDE PROJECT

Date of Anelysis	SIO Report No.	Tank Nc.	No. of Runs	Index	Cum. Runs	Cum. Index	Date of Analysis	SIO Report Mo.	Tank No.	No. of Runs	Index	Cum.	Cum. Index
 		Low Span	pen Tenks	- Prefield	7				Low Sp	Low Span Tanks -	Postfield	او	
07-25-60	6 7	7351	22	273.17	22		03-06-64	7	7351	10	272.84	451	
07-27-60		7351	10	273.17	32		03-11-64	7	7351	07	272.93	144	
07-28-60	m	7351	11	273.35	43		03-12-64	7	7351	10	273.07	75.	
07-28-60	m	7351	07	273,34	53		03-13-64	-	7351	10	272.84	164	
07-29-60	က	7351	01	273.43	63		03-19-64	7	7351	12	272.92	176	273.22
04-28-61	4	7351	91	272.95	73	_							
06-15-61	4	7351	10	273.52	83								
06-27-61	4	7351	10	273.57	93	-							
08-03-61	4	7351	13	273.53	10	_							
08-15-61	4	7351	10	273.62	114								
08-22-61	4	7351	9	273.38	124	273.35							
-	¢	15001	6	000	5		10-22-67	13	10066	9	289.35	2	
10-10-/n 62	:	10001	3 :	269.00	3 5	-	10-31-67	1 2	1006	2 5	289.39	1 5	
	1 0 (TOMOT	1 :	76.707	17		10-10-10T	1 :	10001	? :	70 800	1,5	
• •	a o (10004	01	289.19	ร :		11-20-07	7;	3 5	1;	70.007	7 6	
11-24-64	30	10064	01	289.28	7	789.35	11-29-67	12	10064	3 2	289.23		289.22
								i		i i			
12-07-61	5	10065	11	278.78	11								
12-07-61	S	10065	91	278.90	71								
02-05-62	'n	10065	6	278.85	20	•							
04-10-62	S	10065	10	278.96	04								
04-16-62	'n	10065	91	279.05	S								
04-16-62	Ś	10065	σô	278.92	88								
11-13-63	7	10065	10	278.40	89	-							
11-14-63	7	10065	σ	278.58	77								
11-15-63	1	10065	11	278.45	8 9								
11-18-63	7	10065	91	278.20	86								
11-18-63	7	10065	10	278.35	108								
08-23-65		10065	10	278.20	118	278.64							

TABLE4 : INDEX VALUES OF WORKING REFERENCE CASES RARROW, ALASKA CARBON DIOXIDE PROJECT

							HARROW, ALASKA CARBON DIOXIDE PROJECT	A CARBON	DIOXIDE	PRO.JECT			
Analyete	510	Tank	No. of	Index	Cum.	Cum.	Date of	018	rank	No. of	Index	١	
010(15)	No.	ğ	Kuns		Runs	Index	Analysis	Report		Runs	K	Runs	Index
		Secol	Secondary Tanks	1 - Prefie	PI			•	;		1		
07-01-64	00	11111	ů.	309.48	2		63 06 60		rribary	TI.	Postfield	19	
07-02-64	တ	11111	9	300 59			/0-00-00		[111]		309.74	71	
07-24-64	80	11111	2 -	200.500	ה ה		03-30-67		11111	10	309.79		
08-26-64	6 0	11111	2 -	300.00	7.		04-04-67	11	11111	11	309.87		
09-17-64	· 00	11111	3 2	300 40	.		04-05-67		11111	10	309.74	102	
11-11-64	∞	11111	101	309.61	7 5	300 88	04-20-67	1	11111	10	309.76	112	309.65
;					\$	60.00							
01-26-67	11	30407	10	311.94	10				•				
02-07-57	11	30407	10	311.90	20								
02-01-67	11	30407	70	311.79	30								
02-13-67	11	30407	10	311.83	07								
02-20-67	11	30407	10	311.97	: S	311.89							
-													
-							02-10-60		6	,			
63						~~	99-64-79	07 K	7/001	62	310.95	62	310.95
-													
						~							
						-							
						-							
						-							
* Letter dated 04-19-68	ited 04-1	89-68											

TABLE 4: INDEX VALUES OF WORKING REFERENCE GASES

BARROW, ALASKA CARBON DIOXIDE PROJECT

08-25-59 2 4283 10 343.34 10 343.34 10 343.34 10 343.34 10 343.37 10 343.37 10 343.37 10 343.37 10 343.37 10 343.37 10 343.37 10 343.37 10 343.37 10 343.37 10 343.37 41 20 03-09-64 7 4283 10 342.94 135 08-31-59 2 4283 10 343.17 41 20 03-10-64 7 4283 10 342.86 185	Date of Analysis	SIO Report No.	Tank No.	No. of Runs	Index	Cum.	Cum. Index	Date of Analysis	SIG Report No.	Tenk No.	No. of Runs	Index	Cum. Runs	Com. Index
08-25-59 2 4283 10 343.34 10 03-05-64 7 4283 10 343.07 125 08-28-59 2 4283 10 343.17 20 03-09-64 7 4283 10 342.94 135 08-28-59 2 4283 10 343.17 41 10 343.27 41 10 33-09-64 7 4283 10 342.84 135 09-31-59 2 4283 10 343.27 41 02-16-64 7 4283 10 342.88 155 01-26-62 5 4283 10 343.05 50 10-26-62 5 4283 10 343.05 50 10-26-62 5 4283 10 343.06 92 01-26-62 5 4283 10 343.06 92 01-36-64 5 4283 10 343.06 92 01-36-64 8 10071 10 339.00 10 03-26-64 8 10071 10 338.96 20 00-26-64 8 10071 10 338.96 60 339.00 10 03-26-64 8 10071 10 338.96 60 339.00 10 03-26-64 8 10071 10 338.96 60 339.00			Higi	• 1	s - Pref1	eld				High	Spen Tank	s - Postf	teld	
08-28-59 2 4283 10 343.17 20 03-09-64 7 4283 10 342.94 135 08-31-59 2 4283 11 343.31 31 03-10-64 7 4283 10 342.84 145 08-31-59 2 4283 11 343.15 5 00-16-64 7 4283 10 342.86 155 01-25-62 5 4283 10 343.16 72 03-16-64 7 4283 10 342.86 165 01-25-62 5 4283 10 343.16 72 03-16-64 7 4283 10 342.86 165 01-26-62 5 4283 11 343.16 72 4283 10 342.86 165 01-30-62 5 4283 11 343.95 13 343.02 13 433.02 13 13 143.88 155 01-30-62 5 4283 11	08-25-59	7	4283	0	343.34	2		03-05-64	7	4283	01	343.07	125	
08-31-59 2 4283 11 343.31 31 03-10-64 7 4283 10 342.84 145 08-31-59 2 4283 10 343.27 41 02-16-64 7 4283 10 342.84 145 01-24-62 5 4283 10 343.77 62 01-25-62 5 4283 10 343.06 92 01-29-62 5 4283 10 343.06 92 01-30-62 5 4283 10 343.06 92 01-30-62 5 4283 11 342.68 103 01-30-62 5 4283 10 343.95 115 343.02 01-30-64 8 10071 10 338.95 20 01-26-64 8 10071 10 338.91 50 09-17-64 8 10071 10 338.91 50 0	08-28-59	2	4283	01	343.17	20		03-09-64	7	4283	10	342.94	135	
08-31-59 2 4283 10 343.27 41 02-16-64 7 4283 10 342.88 155 01-25-62 5 4283 12 342.77 62 01-25-62 5 4283 10 343.16 72 01-29-62 5 4283 10 342.52 82 01-29-62 5 4283 10 342.52 82 01-30-62 5 4283 11 342.68 103 01-30-62 5 4283 12 342.95 115 343.02 01-30-64 8 10071 10 338.96 20 01-26-64 8 10071 10 338.96 60 339.00 09-17-64 8 10071 10 338.96 60 339.00	08-31-59	7	4283	11	343.31	31		03-10-64	7	4283	10	342.84	145	
01-24-62 5 4283 9 343.05 50 03-16-64 7 4283 10 342.86 165 01-25-62 5 4283 10 343.16 72 <	08-31-59	7	4283	10	343.27	41		02-16-64	^	4283	10	342.88	155	
01-25-62 5 4283 12 342.77 62 01-26-62 5 4283 10 343.16 72 01-29-62 5 4283 10 343.06 92 01-29-62 5 4283 10 343.06 92 01-30-62 5 4283 11 342.95 115 01-30-62 5 4283 12 342.95 115 07-01-64 8 10071 10 339.00 10 07-24-64 8 10071 10 338.95 20 08-26-64 8 10071 10 338.91 50 09-17-64 8 10071 10 338.91 50 10-26-64 8 10071 10 338.96 60 10-26-64 8 10071 10 338.96 60 338.96 6 60 339.00	01-24-62	'n	4283	6	343.05	જ		03-16-64	7	4283	10	342.86	165	342.99
01-26-62 5 4283 10 343.16 72 01-29-62 5 4283 10 342.52 82 01-29-62 5 4283 10 343.06 92 01-30-62 5 4283 11 342.95 115 01-30-62 5 4283 12 342.95 115 01-30-62 5 4283 12 342.95 115 07-01-64 8 10071 10 538.96 20 07-24-64 8 10071 10 538.92 30 09-17-64 8 10071 10 338.91 50 10-26-64 8 10071 10 338.91 50 10-26-64 8 10071 10 338.91 50	01-25-62	'n	4283	1.2	342.77	62								
01-29-62 5 4283 10 342.52 82 01-29-62 5 4283 10 343.06 92 01-30-62 5 4283 11 342.68 103 01-30-62 5 4283 12 342.95 115 07-01-64 8 10071 10 339.00 10 07-24-64 8 10071 10 338.96 20 09-17-64 8 10071 10 338.92 40 09-17-64 8 10071 10 338.91 50 10-26-64 8 10071 10 338.91 50 10-26-64 8 10071 10 338.91 50	01-26-62	\$	4283	10	343.16	72								
01-29-62 5 4283 10 343.06 92 01-30-62 5 4283 11 342.68 103 01-30-62 5 4283 12 342.95 115 07-01-64 8 10071 10 339.00 10 07-24-64 8 10071 10 338.96 20 09-17-64 8 10071 10 338.92 40 09-17-64 8 10071 10 338.91 50 10-26-64 8 10071 10 338.91 50 10-26-64 8 10071 10 338.96 60	01-29-62	'n	4283	10	342.52	82								
01-30-62 5 4283 11 342.68 103 01-30-62 5 4283 12 342.95 115 07-01-64 8 10071 10 339.00 10 07-24-64 8 10071 10 338.96 20 08-26-64 8 10071 10 338.92 30 09-17-64 8 10071 10 338.92 50 09-17-64 8 10071 10 338.91 50	01-29-62	'n	4283	01	343.06	92								
01-30-62 5 4283 12 342.95 115 07-01-64 8 10071 10 339.00 10 07-02-64 8 10071 10 538.96 20 07-24-64 8 10071 10 338.92 30 09-17-64 8 10071 10 338.91 50 10-26-64 8 10071 10 338.91 50	01-30-62	Ś	4283	11	342.68	103								
07-01-64 8 10071 10 339,00 10 07-02-64 8 10071 10 538,96 20 07-24-64 8 10071 10 538,92 30 08-26-64 8 10071 10 339,25 40 09-17-64 8 10071 10 338,91 50 10-26-64 8 10071 10 338,96 60	01-30-62	~	4283	12	342.95	115	343.02							
07-02-64 8 10071 10 538.96 20 07-24-64 8 10071 10 538.96 20 08-26-64 8 10071 10 339.25 40 09-17-64 8 10071 10 338.91 50 10-26-64 8 10071 10 338.96 60	. 07-01-64	•	10071	10	339,00	10								
07-24-64 8 10071 10 338.92 30 08-26-64 8 10071 10 339.25 40 09-17-64 8 10071 10 338.91 50 10-26-64 8 10071 10 338.96 60	07-02-64	80	1001	10	338.96	20								
8 10071 10 339,25 40 8 10071 10 338,91 50 8 10071 10 338,96 60	40-54-64	∞	1001	10	338.92	30								
8 10071 10 338,91 50 8 10071 10 338,96 60	08-26-64	&	1001	31	339.25	04								
8 10071 10 338.96 60	09-17-64	∞	1001	01	338.91	20								
	10-26-64	80	1001	10	338.96	OŞ O	339.00							

TABLE 4: INDEX VALUES OF WORKING REFERENCE GASES BARROW, ALASKA CARBON DIOXIDE PROJECT

						2	EARROW, ALASKA CARBON DIOXIDE PROJECT	A CAKBO	N DIOXIDE	PROJECT			
Date of Analysis	SIO Report	Tank No.	No.of Runs	Index	Cum. Runs	Cum. Index	Date of Analysis	SIO Report	Tank No.	No. of Runs	Index	Cus. Runs	Cum. Index
		Wor	Working Tank	nks - Prefield] 2				Work	ng Tenks	- Fostfield	P	
			 		:		07-11-66	10	3000	3000 10	345.16	10	345.16
09-15-66	10	3000	10	311.48	10	311.48							
11-16-65	6	4274	10	326.69	10	326.69	06-22-66	10	4274	10	326.61	20	326.65
04-29-65	6	0909	10	313.59	10		03-30-67	11	0909	10	313.79	53	313.65
08-16-56	10	0909	6	313.57	19	313.58							
03-12-63	9	7344	6	311.19	6		04-30-65	6	7344	10	310.97	53	311.11
03-25-63	9	1344	10	311.19	19	311.19							
08-04-65	σ.	10083	10	319.98	10		06-22-66	10	10063	10	319.97	30	319.93
08-23-65	6	10063	10	319.84	20	319.91							
12-06-66	10	10063	10	313.05	10	313.05	10-23-67	12	10063	11	313.08	21	313.07
. 05-23-66	9	10066	10	311.66	10	311.66	12-17-65	•	10066	10	311.80	20	311.73
02-15-66	10	10066	5	312.51	6	312.51	03-30-67	11	10066	10	312.65	19	312.58
08-17-67	12	10066	12	316.17	12	316.71							
08-23-65	6	10067	10	320.80	10		06-22-66	10	10067	10	320.79	31	320.83
08-05-66	10	10001	Ħ	320.90	21	320.85							
12-06-66	10	10067	10	311.74	10	311.74	04-19-68	*	10067	10	311.83	20	311.79
08-05-65	٥,	10068	10	324.92	10	324.92	06-22-66	10	10068	10	324.91	20	324.92
12-06-66	10	10068	11	313.06	11	313.06							
05-21-63	ø	10072	10	315.35	10	315.15	12-20-65	6	10972	01	315.48	20	315.42
*Letter dated 04-19-68	ated 04-1	89-61											

TABLE 4: INDEX VALUES OF WORKING REFERENCE GASES BARROW, ALASKA CARBON DIOXIDE PROJECT

ļ						•	BAKEDH, ALASSA CAKBON DIOXIDE FROJECI	מאשרו האני	OH DIOKE	DE FRANKLI			
Date of Analysis	SIO Report	Tank No.	No. of Runs	Index	Cum. Rume	Cum. Index	Date of Analysis	SI0 Report	Tenk Fo.	No. of Runs	Index	Pun e	Cum. Index
		Working	king Tanks	- Prefield	_				Borks	Working Tanks -	Postfleld	٦	
02-15-66	10	10072	6	1	ı							1	
02-24-66	21	10072		311.02	19								
02-24-66	21	10072	10	310.98	53								
02-24-66	10	10072	10	310.96	39	311.00							
07-01-64	∞	10073	10	307.48	cı	307.48	12-20-65	•	10073	ជ	307.37	21	307.42
02-15-66	10	10073	11	315.29	11		03-30-67	1	10073	01	315.30	31	315.29
02-24-66	10	10073	01	315.27	21.	315.28	1						
08-17-67	12	10073	10	317.34	10	317.34							
05-21-63	•	10075	10	311.60	10	311.60	07-11-66	01	10075	10	311.76	20	311.68
9 12-06-66	10	10075	10	310.46	10	310.4	04-19-68	*	10075	10	310.45	50	310.46
-							07-08-66	10	10076	10	300.41	9	300.41
12-06-66	10	10076	10	310.27	10	310.27	10-23-67	12	10076	10	310.46	20	310.36
08-05-65 07-11-66	9	11082	111	325.86 325.91	11 20	325.88	03-30-67	11	11092	10	326.23	8	326.00
03-12-63 03-25-63	• •	11097	12	313.85 313.76	11 E2	313.80	12-20-65	•	11097	n	313.84	*	313.82
02-15-66	10	11097	6	312.40	6	312.40	03-30-67	11	11097	10	312.56	19	312.58
08-17-67	12	11097	10	314.97	10	314.57							
08-17-67	12	11111	n	317.92	11	317.92							
07-01-64	6 0	11633	10	310.68	10	310.68	12-20-65	σ	11633	10	310.90	20	310,79
* Letter dated 04-19-68	sted 04-1	89-6											

TABLE 4: INDEX VALUES OF WORKING REFERENCE GASES BARROW, ALASKA CARBON DIOXIDE PROJECT

							O TOTAL OF THE PROPERTY OF THE						
Date of Analysis	SIO Report	Tank No.	No. of Runs	Index	Runs	Cum. Index	Date of Analysis	SIO Report No.	Tank No.	No. of Funs	Index	Runs.	Index
77 31 10		Work	Working Tanks - Prefield	- Prefiel	- -	06 111	13-8k "O	-	Work	Working Tanke	10 mm		1
99-61-70	Ξ	11633	1	7 7 7				•	6 7 1.4 7	;	•		
56-17-67	3.2	11633		220,79	T.,	מב טור							
4-16-16		69911	~	306.43	C:		\$3-65-51	æ.	5995	30	304.1	ä	36.6.45
11 80 AV	×	1 (5.59	ř:	3.78. 6.6	[] [4	306,43							
7347 Sub-		31659		11. 95	,. q	••••	03-30-67	-:	11669	c.	33 6 94	(%)	35.5.2
94-24-46	, <u>(</u>	3 3 3 5 6	90-1 T 1	36 575	÷.	35 51.							
69-11-63	1. 12 19.04	53911	€_•	0 en	£.	51.416							
(3)-36-60)	æ	1920E	ÇT ET	310.38	61		96-36-65	œ	¥3201	o e	316 73	Ċ.	310.36
	ν¢	18206	6.	310 54	Ú.	3:0.48							
19-95-55 ET :		10281	11	112.41	63 5 3	• • • • •	32-20-65	60	18267	er 1	33.2.76	č	46 256
	· vc	1000	10	312.62	7,	23.1.55 24.15 25.1							
63-56-63		18258	ž	332.59	Ċ.		12-20-02	3 -	X(\(\partial \)	ψ 7 *	37.2.63	ä	312.40
F1408-63	* 0	142 m	<u></u>	312.29	507	312.40							
01-24-67	e 1 est	10318	<u>c</u>	316.56	30	317.56							
51.26-67	11	10763	0,1	312.50	0	312.56							
41-23-67	em p eri	35,708	G.	315.83	٠ ٢	212.83	39-41-70	*	35450	.,	14,216	n	# C 12
64-22-63	11	30459	11	33.9.56		31.8.46	85-51-40	•	27.84.74 24.74	5	318,44	74	E S
01-26-63	13	30453	<u>;</u>	30 818	<u>C</u>	6.5 6.7 6.4							
						· · · · · · · · · · · · · · · · · · ·							
101161	Lotter dated Gamigames	0,9											

TABLE 4 : INDEE VALUES OF MOMETING REFERENCE GASES BARBOW DIOXIDE FROJECT

							BARR	X. MAS	A CARBO	BARROW. ALASKA CARBON DIOXIDE PROJECT	PROJECT		
Date of	Sic	Park.	Ma. of	Index	CEB.	Cum.	Date of	Sic	Tent	¥.5. 0f	Incex	Cum.	Casa.
Analyato	Report	Ç Z			Fune	Index	Analysic	Report	ž	9000		Runa	Index
	1	H- OF	ing Tanke	- Preffel	9			# # # # # # # # # # # # # # # # # # #	ž	Ing Tanks	- Postiis		
01-27-67	11	30448	30448 30 318.40	318.40	01	318.40	89 51-90 P	*	30kng	30cok 10 318.64	338.44	20	318.42
							04-19-64	•	*****	<u>در</u>	341.02	ğ	341.02
							04-19-68	•	4 3BC	ŢŢ	332.24	11	132.24
- 68 -													
* Letter dated 04-19-68	ated 04-	19-68											

TABLE 5 : COMBINED SCRIPPS AND BARROW INDEX VALUES OF WORKING REFERENCE CASES BARROW, ALASKA CARBON DIOXIDE PROJECT

6	Date Use Began	01-02-65 01-02-65 01-02-65 01-13-65 02-11-55 06-08-65 06-08-65 06-08-65 06-08-65 01-01-65 01-03-66 03-09-66 03-09-66 05-07-66 05-07-66 06-08-66	•
S	Tank No.	18207 18206 11097 11653 18208 11111 10072 10073 10066 10075 10075 10075 10066 11082 6060 11633 10066 11082 6060 10066 10067 10097))
,	Average Index	312.81 310.72 313.82 310.72 313.82 309.83 307.56 306.47 311.72 326.62 326.62 311.67 312.65 312.65 312.65 313.72 313.72 313.72 313.72 313.72)) 1
9	Wgtd. No. of Compar.	12 50 70 70 70 70 70 70 70 70 70 7	,
5	Index	312.82 310.76 313.81 310.76 310.76 310.76 307.42 307.47 301.27 311.72 312.65 313.23 313.23 313.26 313.26 313.26 313.26 313.26 313.26 313.26	> > >
7	At Barrow No. of Compar.	22 23 33 33 34 55 55 55 55 55 55 55 55 55 55 55 55 55	;
3	After Use Incex	312.78 310.70 313.82 310.70 313.82 310.79 300.44 300.44 310.42 310.46 310.46 310.48 312.58 313.65 313.65 313.06 313.06	21.040
2	At Scripps Prior and After No. of In Compar.	32 32 33 34 35 37 37 31 31 31 31 32 33 30 30 30 30 30 30 30 30 30 30 30 30	
Co1: 1	Tank No.	18267 18266 11097 11633 18208 11111 10072 10073 10066 10073 10073 10073 10073 11097 10066 11082 6060 11633 10076 10066 11097	CIONT

englar

TABLE 6: COMPARISON OF SCRIPPS AND BARROW INDEX VALUES OF WORKING REFERENCE GASES BARROW, ALASKA CARBON DIOXIDE PROJECT

					55											9												57		
İ					, 1965		_	_ .		_•	_	•	~	4		3, 1966	~ *	6	_	_	~	~1	. •	~	~	_		16, 1967	۰,	œ
~		9 g				•	13		7	-	90	œ	•••	77				•			•	•	~	œ		01				
		Date Use			January			February		June					Hovember	January	Pebruary	March	Hay		June			August		October	December	Jacoary	February	April
9		Index	BRW - SIO		90.0	90.0	- 0.01	0.16	0.08	0.25	90.0 -	0.22	0.01	- 0.02	0.86	- 0.39	- 0.45	- 0.07	- 0.41	- 0.03	0.20	90.0	0.01	0.0	- 0.38	- 0.10	- 0.13	0.01	- 0.21	- 0.01
5			Index		312.82	310.76	313.81	310.95	312.48	309.90	315.36	307.64	306.47	311.71	301.27	319.54	324.47	326.58	320.42	311.65	311.17	315.23	312.49	312.65	325.63	313.55	313.63	310.37	312.86	311.78
4	At Barrow		No. of	Compar.	68	20	14	57	9	310	30	04	20	30	20	20	10	20	30	20	478	30	30	30	20	19	01	30	30	30
3	tpps	After Use	Index		312,78	310.70	313,82	310.79	312.40	309.65	315.42	307.42	306.46	311.73	300.41	319.93	324.92	326.65	320.83	311.68	310.97	315.29	312,48	312.58	325.00	313.65	313.76	310.36	313.07	311.79
2	At Scripps	Prior and After	No. of	Compail.	32	30	*	20	30	112	20	21	32	20	10	30	20	20	31	70	101	31	19	19	30	29	22	20	21	20
Col: 1		Tank			18207	18206	11097	1.1633	18208	11111	10072	10073	11669	10066	10076	10063	10068	4274	10067	10075	10072	19073	11097	10066	11082	0909	11633	10076	10063	10067

COMPARISON OF SCRIPPS AND BARROW INDEX VALUES OF WORKING REFERENCE GASES BARROW, ALASKA CARBON DIOXIDE PROJECT TABLE 6:

	7		Uate Use	Began		May 17, 1967 July 1 August 1
	9		xapur Veteratur	BRW - SIO		0.14 0.42 0.34
	ŗ	row		Index		313.20 316.32 310.80
TOTON I POTENT	4	At Barrow		No. of Compar		20 28 30
	3	At Scripps Prior and After Use	Combined	Index	¥	313.06 315.90 310.45
	2	At Scr Prior and	Comb	No. of Compar.		11 21 20
	Co1: 1	Tank	No.			10068 30454 10075

* Not included in difference

TABLE 7 : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

4	2	3	7	5	9	7	8	6	10	11
ą y	Observed Scale	No. of Compar-	Barometric	Adjusted Scale Difference	Recorder Scale	Computed Index	Reference	ice Tank	Air	Manometric Conc.
Ċ.	Diff.	1sons	(inches)		Factor	Diff.	No.	Index		(wdd)
-	10.29	56	29.90	- 10.32	2.54	- 26.61	148	339.52	313.31	313.70
1	98.6	32	29.72	- 9.95		- 25.27			314.25	314,85
- 1	10.87	38	29.85	- 10.92		- 21.74			311.78	311.84
7	10.26	43	30.17	- 10.20		- 25.91			313.61	314.07
<u>ا</u>	10.24	7	30.11	- 10.20		- 25.91			313.61	314.07
	12.57	20	29.73	- 12.68	4.18	- 53.00	10070	364.74	311.74	311.79
	2.52	77	29.79	- 12.61		- 52.71			312.03	312.14
_	2.46	29		- 12.57		- 52.54			312.20	
	2.67	14	29.72	2.69		11.24	10064	298.38	309.62	
							July 17		311.36	311.13
	3.15	42		3.18		13.29	•		311.67	311.70
	3.08	37	29.58	3.12		13.04			311.42	
1	12.45	x	29.58	- 12.62		- 52.75	10070	364.74	311.99	
							July 20	July 20 Average	311.52	311.52
-	12.49	œ		- 12.50		- 52.25	•)	312.49	
	3.20	42	29.65	3.24		13.54	10064	298.38	311.92	
							July 21	21 Average	311.99	312.09
	3.24	94	29.88	3.25		13.59	`)	311.97	312.07
	2,36	7		2.36		9.86			309.24	
-	13.13	13	29.99	- 13.13		- 54.38	10070	364.74	309.86	
							July 23		309.48	309.04
-	13.15	7	29.94	- 13.18		- 55.09	10070	364.74	309.65	
	2.67	43		2.68		11.20	10064	298.38	309.58	
							July 24	Average	309.58	309,16
	2.67	47	29.97	2.67		11.16	•	•	309.54	309.11
	2.57	31	30.24	2.55		10.66			309.04	
7	13.00	٣	30.24	- 12.90		- 53.92	10070	364.74	310.83	
							July 26	July 26 Average	309.20	309.70

TABLE 7 : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric Conc. (ppm)				308.83	309.94		308.67	306.12	305,37			308.52	302,52			309.28			309.77	311.10			307.88			306.95			306.93	306.42
10	Air Index		308.87	310.90	309.31	298.38	307.38	309.18	307.09	305.47	310.30	308.25	309.06	304.13	309,90	309.62	309.68	310.13	310.05	310.08	311.17	308.83	308.36	308.53	308.61	307.44	307.77	307.71	307.83	307.75	307.33
6	ice Tank Index		298.38	364.74	Average		297.15	Average				364.74	Average	297.15		312.39		312.30	297.15	Average		312.30	297.15		312.30	297.53	Average			Average	297.53
&	Reference		10064	0.000	July 27			July 28				10070	3	10065		10069	August 2	10069	10065	August 3		10069	10065	August 5	10069	1001	August 6			August 7	10077
7	Computed Index Diff.		10.49	-53.84		11.56	10.23		9.94	9.32	13.15	-56.49		6.98	12.75	- 2.68		- 2.17	12.90		14.02	- 3.47	11.21	,	- 3.59	27.91	•	28.18	- 4.47	6	77.80
9	Recorder Scale Factor		4.18			4.16								2.53															3.29		
5	Adjusted Scalc Difference		2.51	-12.88		2.78	2.46		2.39	2.24	3.16	-13.58		2.76	5.04	- 1.06		- 0.81	5.10		5.54	- 1.37	4.43		- 1.40	11.03	;	17.14	- 1.36	0	¢.4.8
7	Barometric Pressure (inches)		30.17	30.17		30.02	30.02	;	29.93	29.66	29.29	29.29		29.58	29.74	29.74		29.71	29.71		29.84	29.96	29.95	6	30.08	30.08	90	30.00	30.08	30 00	30.00
3	No. of Compar- isons		36	10	•	31	2	;	4 5	97	17	56		30	6	33		12	23	1	22	11	20	•	t į	10	ŭ	(7	11	7.7	3
2	Observed Scale Diff.		2.53	-12.96	;	2.78	2.46		2.39	2.22	3.09	-13.26		2.72	5.00	- 1.05		- 0.80	5.05	i	5.51	- 1.37	4.43	•	45.1	11.06		/1.11	- 1.36	6.7	0.47
Col: 1	Day of Month	1961	July 27	27	•	28	28	•	53	30	31	31	_	1 .3nk3	1 2	2		m	n	•	4	S	\$	`	•	Ş	٢	-	_	đ	Ö

TABLE 7 : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

9 10 11	ence Tank Air Manometric				307.69		312.30 11 Average	307.69 312.30 308.42 11 Average 308.10 308.29	307.69 312.30 308.42 11 Average 308.10 308.29 297.53 307.07	307.69 312.30 308.42 11 Average 308.10 308.29 297.53 307.07	307.69 312.30 308.42 11 Average 308.10 308.29 297.53 307.07 14 Average 307.77 312.30 306.64	307.69 312.30 308.42 11 Average 308.10 308.29 297.53 307.07 14 Average 307.77 312.30 306.64 312.30 304.73	307.69 312.30 308.42 11 Average 308.10 308.29 297.53 307.07 14 Average 307.77 312.30 306.64 312.30 304.73 279.53 307.03	307.69 312.30 308.42 11 Average 308.10 297.53 307.07 14 Average 307.77 312.30 306.64 312.30 306.73 279.53 307.03	307.69 312.30 308.42 11 Average 308.10 297.53 307.07 14 Average 307.77 312.30 304.73 279.53 307.03 16 Average 306.35	307.69 312.30 308.42 11 Average 308.10 297.53 307.07 14 Average 307.77 312.30 304.73 279.53 307.03 16 Average 306.35 298.99 307.17	307.69 312.30 308.42 11 Average 308.10 297.53 307.07 14 Average 307.77 312.30 304.73 279.53 307.03 16 Average 306.35 298.99 307.17 312.30 304.51	312.30 308.42 11 Average 308.10 297.53 307.07 14 Average 307.77 312.30 304.73 279.53 307.03 16 Average 306.35 298.99 307.17 312.30 304.51 18 Average 306.55	312.30 308.42 11 Average 308.10 297.53 307.07 14 Average 307.77 312.30 304.73 279.53 307.03 16 Average 306.35 298.99 307.17 312.30 304.51 18 Average 306.80	312.30 308.42 11 Average 308.10 297.53 307.07 14 Average 307.77 312.30 304.73 279.53 307.03 16 Average 306.35 298.99 307.17 312.30 304.51 18 Average 306.80 298.99 307.17 312.30 304.51	312.30 308.42 11 Average 308.10 297.53 307.07 34 Average 307.77 312.30 304.73 279.53 307.03 16 Average 306.35 298.99 307.17 312.30 304.51 18 Average 306.80 298.99 312.01 19 Average 310.46	312.30 308.42 11 Average 308.10 297.53 307.07 312.30 304.73 279.53 307.77 312.30 304.73 279.53 307.03 16 Average 306.35 298.99 307.17 312.30 304.51 18 Average 306.80 298.99 312.01 19 Average 310.46 312.30 306.76	312.30 308.42 11 Average 308.10 297.53 307.07 312.30 304.73 279.53 307.77 312.30 304.73 279.53 307.03 16 Average 306.35 298.99 307.17 312.30 304.51 18 Average 306.80 298.99 312.01 19 Average 306.80	312.30 308.42 11 Average 308.10 297.53 307.07 312.30 304.73 279.53 307.77 312.30 304.73 279.53 307.03 16 Average 306.35 298.99 307.17 312.30 304.51 18 Average 306.80 298.99 312.01 19 Average 306.76 312.30 306.76 312.30 306.76 312.30 306.76	312.30 308.42 312.30 308.42 11 Average 308.10 297.53 307.07 312.30 304.73 279.53 307.03 16 Average 306.54 298.99 307.17 312.30 304.51 18 Average 306.80 298.99 312.01 19 Average 306.76 312.30 306.76 312.30 306.76 298.99 307.12	312.30 308.42 312.30 308.42 11 Average 308.10 297.53 307.07 312.30 304.73 279.53 307.77 312.30 304.73 279.53 307.17 298.99 307.17 312.30 304.51 18 Average 306.80 298.99 312.01 19 Average 306.75 298.99 312.01 298.99 312.01 298.99 307.12 298.99 307.12	312.30 308.42 312.30 308.42 308.29 297.53 307.07 312.30 304.73 279.53 307.77 312.30 304.73 279.53 307.17 312.30 304.51 16 Average 306.80 312.30 304.51 18 Average 306.80 298.99 312.01 19 Average 306.76 312.30 305.76 22 Average 307.16 312.30 307.85	312.30 308.42 312.30 308.42 308.29 297.53 307.07 34 Average 307.77 312.30 304.73 279.53 307.03 16 Average 306.51 298.99 307.17 312.30 304.51 18 Average 306.80 298.99 312.01 19 Average 306.76 212.30 307.51 298.99 307.12 22 Average 307.16 312.30 307.85 312.30 307.86	312.30 308.42 312.30 308.42 11 Average 308.10 297.53 307.07 312.30 304.73 279.53 307.03 16 Average 306.35 18 Average 306.35 18 Average 306.35 298.99 307.17 312.30 304.51 19 Average 306.76 212.30 307.15 22 Average 307.16 22 Average 307.16 23 Average 307.85 23 Average 307.85 23 Average 307.85 23 Average 307.85	312.30 308.42 312.30 308.42 11 Average 308.10 297.53 307.07 312.30 304.73 279.53 307.03 16 Average 306.35 18 Average 306.35 18 Average 306.80 19 Average 306.76 312.30 307.17 298.99 312.01 19 Average 306.76 312.30 307.85 22 Average 307.81 22 Average 307.81 23 Average 307.81 298.99 307.12 22 Average 307.82 23 Average 307.83	312.30 308.42 312.30 308.42 11 Average 308.10 297.53 307.07 312.30 304.73 279.53 307.77 312.30 304.73 279.53 307.03 16 Average 306.35 298.99 307.17 312.30 306.51 298.99 312.01 19 Average 307.16 298.99 307.12 22 Average 307.16 23 Average 307.85 23 Average 307.85 23 Average 307.85 23 Average 307.85 298.99 307.12 298.99 307.12 22 Average 307.85 23 Average 307.85	307.69 312.30 308.42 10 Average 308.10 297.53 307.07 312.30 304.73 279.53 307.77 312.30 304.73 279.53 307.73 312.30 304.73 308.51 298.99 307.17 312.30 306.76 312.30 306.76 312.30 307.15 22 Average 307.16 22 Average 307.16 298.99 307.85 23 Average 307.85 298.99 307.80 312.30 307.85 312.30 307.85 307.85 307.85 307.85 307.85 307.85 307.85 307.85 307.85 307.85 307.85 307.85 307.85 307.85 307.85 307.85
ed Reference					10069	August		10017	•		10069	10017	August		9409	10069	August		\$ 209	August	10069		\$ 209	August		10069	August	7109	10069	August		
,	er Computed			28.16	- 3.88		- 4.01	27.54		- 5.66	- 7.57	27.50		28.98	8.18	- 7.79		- 6.27	13.02		- 5.54	- 4.79	8.13		8.81	- 4.45		9.51	- 4.35		- 4.45	- 4.69
	ale Recorder	jr.,		3.29											2.20						2.59											
	Adjusted Scale			8.56	- 1.18		- 1.22	8.37		- 1.72	- 2.30	8.36		8.81	3.72	- 3.54		- 2.85	5.92		- 2.14	- 1.85	3.14		3.40	- 1.72		3.67	- 1.68	,	- 1.72	- 1.81
***************************************	Barometric	(inches)		29.82	29.82		29.98	29.98		29.76		29.73		29.89	29.91	29.91		29.65	29.65		29.63	29.72			29.90	29.90		30.02	30.02	,	29.81	29.08
	No. of	1sons		7	S		20	15		16	13	31		29	37	ý		7	20		14	ς.	43		41	9		23	9	ı	7	10
2	Observed	Diff.			71.1		- 1.22	- 8.37		1	2.28	8.29				3.53		- 2.82			- 2.11	- 1.83	3.11		3.39	:		3.67	- 1.68		- 1.71	- 1.80
Co1: 1	Day of		1961	Aug. 11	11		14	17		15	16	16			87 74			19	19		21	22	22		23	23		24	24		27	28

TABLE 7 : INDICES OF AIR HITH CONTINUOUS AMALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	'sanometri	(mdd)		306.64	306.92	307.55			307.45	308.66	311.00	316.42			308.15			307.53	307.39			308.12	307.61	308.50	308.50	308.82	307.65	310.24	310.97	311.67	310.45
10	Air			307.51	307.74	308.26	308.29	308.13	308.18	309.17	311.09	315.54	308.81	308.62	308.75	308.54	308.18	308.24	308.13	308.78			308.31	309.34	308.04	309.30	308.34	310.47	311.07	311.64	310.64
6	ice Tank	Index		312.30	298.99			312.30	l Average	298.99				312.30	7 Average		298.99	9 Average			312.30	13 Average				312,30		304.51			
æ	Reference	.vo.		10069	6704			10069	September	7409				10069	September		6074	September			10063	September				10059		3755			
7	Computed	Diff.		61.4 -	8.75	9.27	9.30	- 4.17		10.18	12.10	16.55	9.82	- 3.68		- 3.76	9.19		9.14	9.19	- 3.65		- 3.99	- 3.26	- 3.26	_ 3.0€ <u>_</u>	- 3.06	5.96	6.56	7.13	6.13
9	Recorder	Factor		2.59																								1.4.1			
U \	Adjusted Scale	Difference		- 1.85	3.38	3.58	3.59	- 1.61		3.93	4.67	6.39	3.79	- 1.42		- 1.45	3.55		3.53	3.78	- 1.41		- 1.54	- 1.26	- 1.26	- 1.16	- 1.53	4.23	4.65	5.06	4.35
7	Barometric	(inches)		29.84	29.71	29.70	29.82	29.82		29.74		29,45		-		•	30.08		30.04	29.82			29.78	29.67	29.75	29.91	29.73	29.78	29.83	29.44	29.06
	No. of	isons		07	97	38	7	6		21	77	32	8	ဘ		ယ	37		2.7	14	10		30	42	77	1,7	្ន	15	39	38	87
2	Observed	ocale Diff.		- 1.84	3,35	3.54	3.57	- 1.60		3.90	4.59	6.28	3.72	- 1.39		- 1.45	3.56		3.54	3.76	- 1.40		- 1.53	- 1.25	- 1.25	- 1.16	- 1.52	4.20	4.63	76.97	÷.3
Co1: 1	bay of	Jonen	1961	Aug. 29	30	31	Sept. 1	~		2	5	9		۰ 75	_	6	6		10	13	13		14	15	16	17	18	21	22	23	24

A Company of

TABLE 7 : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

	tric	; (54	51	69	29	99	95	90	11	30	35	82	03	52	98	41	33	38	39	84	89	86	52	03	81	B	37	76
11	Manometric	Conc.		310.45	309.	312.	315.59	312.66	311.95	310.06	310.11	310.30	310.35	310.82	312.03	312.52	312.	312.	311.33	312.	315.	313.84	315.68	313.89	315.52	317.	315.81	319.04	320.37	318.94
10	Air	Index		310.64	309.87	312.48	314.86	312.45	311.87	310.32	310.36	310.52	310.56	310.94	311.94	312.34	312.62	312.25	311.36	312.22	314.69	313.42	314.93	313.46	314.80	316.04	315.04	317.69	318.78	317.61
6	ice Tank	Index		304.51																										
8	Reference	₩		3755																										
7	Computed	Index Diff.		6.13	5.36	1.97	10.35	7.94	7.36	5.81	5.85	6.01	6.05	6.43	7.43	7.83	8.11	7.74	6.85	7.71	10.18	8.91	10.42	8.95	10.29	11.53	10.53	13.18	14.27	11 10
9	Recorder	Scale		1.41																										
5	Adjusted Scale	Difference		4.35	3,30	5,65	7.34	5.63	5.22	4.12	4.15	4.26	4.29	4.56	5.27	5.55	5.75	5.49	4.86	5.47	7.22	6.32	7.39	6.35	7.30	8.18	7,47	9,35	10.12	0 00
4	Barometric	Pressure (inches)		29.66	29.98	30.07	29.88	29.81	29.98	30.19	30.15	29.90	29.64	29.76	30.18	30.31	30.18	30.09	30.06	29.95	29.89	29.80	29.62	29.66	29,94	29.55	29.55	29.35	29.36	70 56
3	No. of	Compar- isons		87	78	42	47	47	97	23	38	47	87	47	47	48	97	76	97	28	24	17	45	39	4 3	87	77	47	45	23
2	Observed	Scale Diff.		06.30	3.80	5.67	7.31	5.60	5.22	4.15	71.7	4.25	4.24	4.52	5.30	5.61	5.78	5.51	4.87	5.46	7.20	6.28	7.30	6.28	7.29	8.06	7.36	9,15	9.91	71 0
Col: 1	Day of	Month	1961	Sont 74		26	27	28	29	30	3	2	ı en	- -		6 ·		11	12	13	14	15	16	17	18	19	20	21	22	73

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TABLE 7 : THRIGTS OF AIR HITH CONTINCOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

1.1	Manometric Conc. (ppm)		318.86	315.25	315.73	316.94	316.36	317.07	317.14	316.94	317.48	318.79	314.94	314.34	314.59	315.13			309.91	314.96	316.36	316.08	316.32	315.54			313.01	116.41	317.03	316.88
10	Air Index		317.54	314.58	314.97	315.97	315.49	316.07	316.13	315.97	316.41	317.48	315.97	313.83	314.06	314.48	308.19	314.05		314.34	315.49	315.26	315.46	314.82	311.85	314.10		315.53	310.04	315.92
6	nce Tank Index		304.51														297.26		8 Average								November 14 Average			
20	Reference		3755														3756		November								November			
7	Computed Index Diff.		13.03	10.01	10.46	11.46	10.98	11.56	11.62	11.46	11.90	12.97	11.46	9.32	د. د د د	6.07	16.93	16.79		17.08	18.23	18.00	18.20	17.56	14.59	16.84		18.27	18.78	18.66
Ç	Recorder Scale Factor		1.41														1.55								1.28				1.45	
<u>(</u>	[djusted Scale Difference		47.74	7.14	1.42	8.13	7.79	8.20	8.24	8.13	8.44	9.20	8.12	6.61	6.76	7.07	7.05	10.83		11.02	11.76	11.61	11.74	11.33	11.40	13.16		14.27	12.95	12.87
7	Barometric Pressure (inches)		29.50			•	29.88			29.85	29.90	29.85	29.82	30.02	30.22	30.05	29.94	29.94		29.64	5	6	6	29.37	σ	5		30.11	29.89	27.62
~	Compar-		36	77	97	77	77	47	24	45	48	47	38	s c	77	7.7	21	11		4 3	97	43	21	42	20	13		29	35	38
2	Observed Scale Diff.		9.10	7.06	7.37	8.06	7.76	8.24	8.23	8°.09	8.41	9.15	8.08	6,62	6.8]	7.05	7.04	10.81		10.89	11.54	11.39	11.50	11.10	11.21	12.94		14.33	12.91	12.72
Col: 1	Day of Month	1961	Oct. 23		27	28	29	30	31	ov. 1			- 3 - 7			1-	œ	œ		6	10	11	12	13	3.4	14		25	27	28

TABLE 7 : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

1																											
11	Manometric Conc. (ppm)		317.46	316.37	316.49	316.60	316.52	317.30	317.23	317.38	316.91	316.56	316.69	317.13	317.47	317.83	317.24		319.61	321.06	322.47	316.40	323.90	323.81	324.00	323.94	323.74
10	Adr Index		316.39	315.50	315.60	315.69	315.62	316.26	316.20	316.33	315.94	315.65	315.76	316.12	316.40	316.70	316.21		318.16	319.35	320.50	315.52	321.68	321.60	321.76	321.71	321.55
6	ce Tank Index		297.26																				319.17				
80	Reference		3756																				1001				
7	Computed Index Diff.		19.13	18.24	18.34	18.43	18.36	19.00	18.94	19.07	18.68	18.39	18.50	18.86	19.14	19.44	18.95		20.90	22.09	23.24	18.26	2.51	2.43	2.59	2.54	2.38
9	Recorder Scale Pactor	†	1.45																1.63				2.51				
5	Adjusted Scale Difference		13.19	12.58	12.65	12.71	12.66	13.10	13.06	13.15	12.88	12.68	12.76	13.01	13,20	13.41	13.07		12.82	13.55	14.26	11.20	1.00	0.97	1.03	1.01	0.95
4	Barometric Pressure (inches)		29.77	29.60	29.68	29.75	29.83	30.02	30.22	30.40	30.51	30.05	29.81	29.84	30.20	30,33	30.47		29.75	29.93	30.22	30.43	29.80	30.26	30.05	29.80	29.87
3	No. of Compar-		97	25	42	42	77	36	17	42	29	21	19	43	14	23	. 60		14	48	29	24	23	41	4	97	47
2	Observed Scale Diff.		13.10	12.42	12.52	12.61	12.60	13.11	13.17	13.34	13.10	12.71	12.68	12.95	13.29	13.56	13.28		12.72	13.52	14.38	11.37	0.99	0.98	1.03	1.00	0.95
1		1	5.9	-	. 7	س	4	· •^	• •	~	. 00	• •	10	12]]	77	16		٣	7	~	_	10	11	12	13	14
Co1:	Day of Month	1961	Nov.	Dec.	,							-	7	8	-			1962	Jan.								

TABLE 7 : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Conc. (ona)			323	3.43		324			321	5 377.65	371				370		355	322.95			322.47		32	323.			325,	322.	
10	A P P P P P P P P P P P P P P P P P P P		321.23	321.65	321.35	321.93	322.08	323.6	320.7	319.53	320.65	319.5	÷.	314.8	326.33	319.25	319,95	320.6	320,90	320,55	320.17	220,50	320.40	321,03	323.10	320,98	370.43	320.45	330.68	.71.
6	nce Tank		319,13																											
80	Reference		10033																											
7	Computed index Diff.		2.06	2.48	2.18	2.7%	2.9.	2.48	90.4	0.38	87.4	0.38	6.50	67.3	7.00	£0.0	6.78	من ۱۲۰۰۰	1.73	(D)	. 00.	1.33	2.43	36.4	1.03	<u>8</u> .4	1.26	3.28	1.51	2.3н
9	Recorder factor		7.51																											
5	Adjusted Scale Difference		0.83	25.0	E3.0	97.7	v: ; , ,	3.7° €	£4.5	51.0		000	0.33	7.9	34.0	0,63		9.39	99.6	(C) 0	17,0	S.E.	15, 57	81.0	77.0	0.77	05.9	18,51	€ 9 '8	
7	Barometric Pressure (inches)		34.12		36.49					29.93		30,31							59.61	29.73		30,39			~.	39.42	22,56	29.86	50.00	305
n	No. of Compar-		£ 3	44	C m	43	C#	9.7	46	07	7.7	77	44	7	α. • • • • •	35	3.6	ς .	27	25	04	्र च	ران 1-غ	4.		7.7	9.9	<u>.</u>	=;) c
2	Observed Scale niff		28.0	30.0	ින ර	y-14 			0.63	0.15	65.0	0.15	0.20	3 C		(a)	٠.٠٠ ٢٠ ٢٠ ٢٠	55.0	0.58	95.0	070	7	25°	0.76	16		3 · · · · · · · · · · · · · · · · · · ·	. C.	0,60	, a . c
Co1: 1	Day of Month	1962	Star. 15	<u> </u>		. e	0	97	77		, r.		79				, e.	, c	e m	40.0		, ~	۱ ~	, e.	۱ .	. •.	e:	e er	C:	

TABLE 7 : INDICES OF AIR WITH CENTIANOUS ANALYZER BARROW, AJASKA CARBON DIOXIDE PROJECT

j		- 1																												
11	Manometric	(mdd)		323.32	322.53	322.16	322.00			321.69	319.35	319.81	319.81	319.83	319.69	319.56	319.07	318.98	319.25	319.41	318.46	318.80	318.86	319.20	319.13	318.94	319.89	319,35	319.38	319.10
QE	Alr			321.20	320.55	320.25	320.12	320.55	317.51		317.94	318.32	318.32	318.34	318.22	318.12	317.71	317.64	317.87	317.99	317.21	317.49	317.54	317.82	317.76	317.61	318.39	317.94	317.97	317.74
6	sce Tenk	Index		319.17					298.99	16 Average																				
80	Reference	Q		1001					10073	Pebruary																				
,	Computed	Mff.		2.03	1.38	1.06	0.95	1.38	18.52		18,95	19.33	19.33	19.35	19.23	19.13	18.72	13.65	18.88	19.00	18.22	18.50	18.55	15.83	18.77	18.62	19.40	18.95	18.58	18.75
9	Recorder	Pactor		2.51																										
\$	Adjusted Scale	DALTETEDGE		0.81	0.55	6.43	0.38	0.55	7.38		7.55	7.70	7.70	7.71	7.66	7.62	7.46	7.43	7.52	7.57	7.26	7.37	7.39	7.50	7.48	7.42	7.73	7.55	7.56	7.47
4	Barometric	(1nches)		30.22	30.29	30,28	30.37	30,46	30,46		30.32	30.18	29.93	29.60	30.09	30.48	30.43	30.24	30.07	30.38	30,38	30.27	30.07	29.93	30.19	30.18	29.95	29.99	30.11	30.11
3	No. of	Compar- 1sons		77	46	45	6 .0	34	10	<u>;</u>	47	84	45	77	47	47	47	94	47	46	47	43	42	94	47	47	ć 5	47	33	9
2	Observed	Scale Diff.		0.82	0.56	0.43	0.39	0.56	7.50) 	7.63	7.75	7.68	7.61	7.68	7.74	7.57	7.49	7.54	7.67	7.36	7.44	7.41	7.49	7,53	7,46	7.72	7.55	7.59	7.50
1	<u> </u>	·		12	13	14	15	16	16		17	38	19	20	21	22	23	57	25	26	27	28	-	7	m	•3	'n	9	7	∞
Co1:	Day of	Month	1962	Feb.								•	-	80	_								Mar.	• • •						

TAPLE 7 : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

1			į																												
11	Manometric	Conc. (ppm)		318.40	319.50	319.20	318,13	318.09	318.70	318.64	318.70	318.98	318.98	319.04	319.16	318.88	319.32	319.28	319.28	319.09	318,57	318.72	318.87	318.75	318.91	338.48	318.91	317.96	318.91	319.27	319.33
10	Air	Index		317.16	318.07	317.82	336.94	316.91	317.41	317.36	317.41	317.64	317.64	317.69	317.79	317.56	317.92	317.89	317.89	317.73	317.30	317.43	317.55	317.45	317.58	317.23	317.58	316.80	317.58	317.88	317.93
6	e Tank	Index		398.99																309,02											
ဆ	Reference	Š.	† 	10073																10068											
7	Computed	Index Diff.		18.17	19.08	18.83	17.95	17.92	18.42	18.37	18.42	18.65	18.65	18.70	18.80	18.57	18.93	18.90	18.90	8.71	8.28	8.41	8.53	8.43	8.56	8.21	8.56	7.78	8.56	8.86	8.91
9	Recorder	Scale Factor		2.51																											
۰	Adjusted Scale	Difference		7.24	7.60	7.50	7.15	7.14	7.34	7.32	7.34	7.43	7.43	7.45	7.49	7.40	7.54	7.53	7.53	3.47	3.30	3.35	3.40	3.36	3.41	3.27	3.41	3.10	3.41	3,53	3.55
7	Barometric	Pressure (inches)		30.38	30.89	30.86	30.49	30.22	30.32	30.62	30.64	30.35	30.25	30.52	30.46	30.53	30.40	30.30	30.13	29.67	29.69	29.88	30.21	30.17		-	•		-	29.64	
3	No. of	Compar- isons		6	26	47	19	45	1.4	48	33	12	87	48	47	45	87	97	30	12	23	40	30	97	47	45	42	47	45	45	97
2	Observed	Scale Diff.		7.34	7.83	7.72	7.27	7.20	7.42	7.48	7.50	7.52	7.50	7.59	7.61	7.54	7.65	7.61	7.57	3.43	3.27	3.34	3.42	3.38	3.45	3,32	3.45	3.16	3.45	3.49	3.52
Co1: 1	Day of	Month	1962	Mar. 9		11	12	13	14	15	16	17	18		02 31		22	23	24	27	28	29	30	31	ADK. 1		~	7	S	Ŷ	7

TABLE 7: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE FROJECT

1		1																												
11	Manometric	(ppm)		319.39	320.43	319.37	318.79	319.37	319.09	319.25	319.39	319.39	319.21	319.74	319.64	319.25	319.27	319.80	319.64	320.04	320.22	319.92	320.31	319.25	320.34	319.85	320.45	319.85	319.72	320.06
10	Afr	7		317.98	318.83	317.96	317.48	317.96	317.73	317.86	317.98	317.98	317.83	318.26	318.18	317.86	317.88	318.31	318.15	318.51	318.66	318.41	318.73	317.86	318.76	318.35	318.85	318.35	318.25	318.53
6	e Tank	Index		309.02																						303.09				
80	Reference	Жо.		10068																						8009				
7	Computed	Diff.		8.96	9.81	8.94	3.46	8.94	8.71	8.84	8.96	8.96	8.81	9.24	9.16	8.84	8.86	9.29	9.16	9.49	9.64	9.39	9.71	8.84	9.74	15.26	15.76	15.26	15.16	15.44
9	Recorder	Scale		2.51																										
5	Adjusted Scale	Ultterence		3.57	3.91	3.56	3.37	3.56	3.47	3.52	3.57	3.57	3.51	3.68	3.65	3.52	3.53	3.70	3.65	3.78	3.84	3.74	3.87	3.52	3.88	6.08	6.28	6.08	6.0%	6.15
4	Barometric	Pressure (inches)		25.91	29.84	29.78	30.16	30.35	30.12	29.90	30.03	30.41	30.42	30.16	30.02	30.08	30.26	30.09	29.91	29.84	29.70	29.83	29.76	30.04	30.24	30.30	30.26	30.16	30.30	30.35
e.	No. of	Compar- isons		43	43	48	37	87	87	32	77	45	45	87	33	70	45	97	33	41	43	43	77	4	27	28	37	20	43	97
2	0bserved	Scale Diff.		3.56	3.89	3.54	3,39	3.60	3.48	3.51	3.57	3.62	3.56	3.70	3.65	3.53	3,56	3.71	3.64	3.76	3.80	3.72	3.84	3,53	3.91	6.14	6.34	6.12	6.10	6.22
Col: 1	Day of	Month	1962	Apr. 8		10	11	12	11	71	15	91		82 82		20	27	22	23	24	25	26	27	28	29	30	Nav 1		m	7

TABLE 7 : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

1	rte			2	รั	7	<u>ი</u>	7:	ñ	90	5	2	ຸນຸ	^ش	Ŧ.	Ñ	0	≃	٠,	9	ō.	6	4.	ر َ د	ũ	20	3 4	7		32
11	Manometric Conc.	(edd)		320.82	320.25	320.67	320.33	320.27	320.45	320.58	320,55	320.52	320.15	326.73	320.64	320.45	319.70	320.31	320.15	320.76	320.15	320.09	320.64	320.45	320.43	320.80	320.64	320.21	320.21	321.32
10	Air Index		,	319.15	318.68	319.03	318.75	318.70	318.85	318.95	318.93	318.90	318.60	319.08	319.00	318.85	315.23	318.73	318.60	319.10	318.60	318.55	319.00	318.85	318.83	319.13	319.00	318.65	318.65	319.56
6	oce Tank	Index	,	303.09																										
8	Reference	No.	1	6078																										
7	Computed Index	D1ff.		16.06	15.59	15.94	15.66	15.61	15.76	15.86	15.84	15.81	15.51	15.99	15.91	15.76	15.14	15.64	15.51	16.01	15.51	15.46	15.91	15.76	15.74	16.94	15.91	15.56	15.56	16.47
9	Recorder Scale	Pactor		2.51																										
S	Adjusted Scale Difference			07.9	6.21	6.35	6.24	6.22	6.28	6.32	6.31	6.30	6.18	6.37	6.34	6.28	6.03	6.23	6.18	6.38	6.18	6.16	6.34	6.28	6.27	6.39	6.34	6.20	6.20	6.56
4	Barometric Pressure	(inches)		30.26	30.24	30.10	30.09	30.19	30.23	30.12	30.06	30.01	29.94	29.59	29.59	29.93	29.87	29.82	29.95	29.94	30.00	30.13	30.12	30.01	29.95	30.04	30.16	30.13	30.17	30.06
3	No. of Compar-	1sons		45	47	44	46	44	45	77	45	47	25	45	35	34	11	3 6	48	42	44	45	94	47	37	47	36	43	97	22
2	Observed Scale	Diff.		6.46	6.26	6.38	6.26	6.26	6.33	6.35	6.32	6.31	6.17	6.29	6.26	€.27	10.9	6.19	6.17	6.37	6.18	6.19	6.37	6.29	6.26	07.9	6.38	6.23	6.24	•
Col: 1	Day of Month		1962	May 5	,	7	6 0	δ.	10	17	12	13		33		17	18	13	20	21	22	23	24	25	26	27	28	62	30	31

The state of the s

TABLE 7 : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

1		l																								
11	Manometric Conc. (ppm)		320.02	320.19	320.19	319.61	320.00	320 63	353.15	5.075	<i>(</i>): 	J			, [-1	, s		***	⊋ 'a'.			;·		
10	Air Index	318.50	318.49	318.63	318.63	318.16	318.48	319.03	33 0.84	329.0	300.01	38.5.5	3 6.37	10.5	316.05	316.37	3 7.79	Sus uf	3.5.22	97.19	32.0.3	3-7-25	317.40	346.98	7.6.0	
6	Index	303.09	verage																							
8	Reference No.	6078	June 1 Average																							
7	Computed Index Diff.	15.41	19.43	19.65	19.65	19.18	19.50	20.05	20.86	20.03	21.03	16.98	17.19	17.57	17.67	3.30	,	19.0^{c}	16.24	15.71	34,52	12:31	37.37	30.01	17.60	37.75
y	Recorder Scale Factor	2.51																								
5	Adjusted Scale Difference	6.14	7.74	7.83	7.83	7.64	7.77	7.99	8.31	7.98	36.8	7.53	6.85	98.3	7.04	6 4	٠, ۲.	, c	-7.9	t.2	., 7	: a r -	٠.		5.	
7	Barometric Pressure (inches)	29.86	29.80	29.77	29.83	29,59	29.53	29.77	29.92	30.03		20.00	Q 20 111		당 :		• • • • • • • • • • • • • • • • • • • •				00 00	 }:-		á		
3	No. of Compar-	6.5	34 15	47	45	27	77	87	46	Ċ,	ď ř:	" <u>:</u>	,,	٠.	;	.1 3.			ຕິ	. 1	1.3	i.		-\$, 74 %	
2	Observed Scale Diff.	6.12	7.69	7.78	7.79	7.54	7.65	7.93	× 2. 3	7.00	ر در		63	, ,	5.7	ć.	· .	ξ. F.	ù.	r: G	r	7	(* ,	* 1 •	ز د	
		-1-	7 7	~	4 v	9	۲.,	œ	o	0.	٠-	٠.	ę.			٠,ς،	,	ر ب 	7		. -	, ,	(°)	, T	<i>:</i>	
Col:	Day of Month	1862 June								4 .			*.	-	•	-,	,	. *4		-	• -	•	. •	•	• •	•

TABLE 7 : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

ı	ย	ļ																													
11	Manometric Conc.	(add)		317.75	317.65	317.55	316.19	314.13	316.88	317.04	316.09	316.15	313.46	315.32	312.85			314.80	314.76	314.20	313.59	312.77	311.24	312.34	309.22	306.32	306.68	308.18	307.66	313.63	313.05
10	Atr Index			316.63	316.55	316.47	315,35	31,,66	315.92	316.05	315.27	315,32	313.11	314.64	312.61	314.09	314.28	314.21	314.18	313.72	313.22	312,54	311.29	312.19	309.63	307.25	307.55	308.78	308.35	313.25	312.77
6	re Tank	Tudex		298.98													297.61	Average													
8	Reference	No.		3757													2427	July 9 4													
7	Computed	offf.		17.65	17.57	17.49	16.37	14.68	16.94	17.67	16.29	16.34	14.13	15.60	13.63	15.11	16.67		16.57	16.11	15.61	14.93	13.68	14.58	12.02	9.64	9.6	11.17	10.74	15.64	15.16
9	Recorder Scale	JO2384		2.51																											
S	Adjusted Scale Difference			7.03	7.00	6.97	6.52	5.85	6.75	6.80	6.49	6.51	5.63	6.24	5.43	6.02	79.9		9.60	6.42	6.22	5.95	5.45	5.81	4.79	3.84	3.96	4.45	4.28	6.23	6.04
4	Barometric Pressure	(1DCUEB)		29.99	30.09	30.13	30.00	29.86	29.91	30.07	30.07	30.03	29.94	29.88	29.65	29.78	29.78		29.75	29.77	29.92	29.91	29.93	30.03	30.10	30.11	30.08	29.94	29.88	30.09	30.14
Э	No. or Compar-	180ns		45	848	87	43	47	77	87	43	79	44	31	97	18	28		33	45	48	45	84	47	45	43	67	47	33	87	84
2	Observed Scale	DIFF.		7.03	7.02	7.00	6.52	5.83	6.73	6.82	6.51	6.52	5.62	6.22	5.37	5.98	6.59		6.55	6.38	6,21	5.93	5.44	5.82	4.81	3.86	3.97	77.7	4.26	6.25	6.07
Co1: 1	Day of Month		1962	June 27		29	30	July 1		m	4	'n		85			6		10	11	12	13	14	15	16	17	18	19	20	21	22

TABLE 7 : INDICES OF AIR WITH CONTINUOUS AMALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

			ı																												
11	Manometric	(ppm)		312.34	311.18	312.07	309.86	305.65	306.50	309.65	309.62	309.93	309.83	307.48	306.22	305.98	307.45	306.46	305.67	306.62	305.92	303.93	308.40	306.08	302.37	305.59	304.33			305.90	307.44
10		N N		312.19	311.24	311.97	310.16	309.98	307,40	309.98	309.96	310.21	310.13	308.20	307.17	306.97	308.18	307.37	306.72	307.50	306.92	305.29	308.96	307.05	304,01	306.65	305.62	306.82	307.29	306.91	308.17
6	oce Tenk	Index		297.61																						307.55			310.10	7 Average	
80	Reference	è		2427																						2426			3756	August 17	
7	Computed	ULEE.		14.58	13.63	14.36	12.55	12.37	9.79	12.37	12.35	12.60	12.52	10.59	9.56	9.36	10.57	9.76	9.11	9.89	9.31	7.68	11.35	9.44	04.9	- 0.90	- 1.93	- 0.73	- 2.81	•	- 1.93
9	Recorder	Scale Factor		2.51																											
\$	Adjusted Scale	Ultrerence		5.81	5.43	5.72	5.00	4.93	3.90	4.93	4.92	5.03	4.99	4.22	3.81	3.73	4.21	3.89	3.63	3.94	3.71	3.06	4.52	3.76	2.55	- 0.36	- 0.17	- 0.29	- 1.12		- 0.77
4	Barometric	(faches)		29.99	29.78	30.21	30.29	29.93	29.99	29.97	29.87	29.91	29.82	29.72	29.56	29.65	29.81	29.70	29.51	29.67	29.78	29.92	29.84	30.01	29.97	29.92	29.82	29.81	29.81		29.77
3	No. of	Compar- 1sons		42	24	31	31	87	84	35	47	84	47	47	42	47	87	47	47	84	47	22	47	37	34	19	43	27	\$		45
2	Observed	Scale Diff.		5.81	5,39	5.76	5.05	4.92	3.90	4.93	4.90	5.00	4.96	4.18	3.76	3.69	4.18	•	3.57	3.90	3.68	3.05	4.50	3.76			- 0.77	- 0.29	- 1.11		- 0.76
Co1: 1	Day of	Bonth	1962	July 23	24	25	26	27	28	53	30	31	Aug. 1	7	e5	4		9	7	œ	σ	11	12	13	14						18 -

TABLE 7 : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

1	1)																												
11	Manometric Conc. (ppm)		307.95	308.54	308.11	307.99	308.57	308.26	307.40	306.37	306.89	307.65	306.61	306.79	307.40	306.89	306.85	308.57	306.55	308.05	308.54	312.51	311.17	308.29	309.30	309.45	310.32	310.34	310.89	309.45
10	Air Index		308.59	309.07	308.72	308.62	309.10	308.84	308.14	307.29	307.72	308.3%	307.49	307.64	308.14	307.72	307.69	309.10	307.44	308.67	309.07	312.33	311.23	308.87	309.70	309.82	310.53	310.55	311.00	309.00
6	ce Tank Index		310.10																											
8	Reference No.		3756																											
7	Computed Index Diff.		- 1.51	- 1.03	- 1.38	- 1.48	- 1.00	- 1.26	96°T -	- 2.81	- 2.38	- 1.76	- 2.61	- 2.46	- 1.96	- 2.38	- 2.41	- 1.00	- 1.66	- 1.43	- 1.03	2.23	1.13	- 1.23	- 0.40	- 0.28	0.43	0.45	0.90	- 1.10
9	Recorder Scale Pactor		2.51																											
5	Adjusted Scale Difference		- 0.60	- 0.41	- 0.55	- 0.59	- 0.40	- 0.50	~ 0.78	- 1.12	- 0.95	- 0.70	- 1.04	- 0.98	- 0.78	- 0.95	- 0.96	0,40	- 0.66	- 0.57	- 0.41	0.89	0.45	- 0.49	- 0.16	- 0.11	0.17	0.18	0.36	77.0 -
7	Barometric Pressure (inches)		29.75	29.86	29.96	29.91	29.78	29.80	29.67	29.73	29.80	29.54	29.56	30.06	30.02	29.58	29.66	29.85	30.14	30.15	29.89	29.66	29.41	4	'n	ā	æ	29.80		29.80
3	No. of Compar- 1sons		94	48	33	84	87	47	47	45	87	43	1.5	77	84	48	84	33	21	7	47	47	22	84	87	87	47	07	77	47
2	Observed Scale Diff.		- 0.60	- 0.41	- 0.55	- 0.59	- 0.40	- 0.50	- 0.77	- 1.11	- 0.94	- 0.69	- 1.03	- 0.98	- 0.78	- 0.94	- 0.95	0.40	- 0.66	- 0.57	- 0.41	0.88	0.44	- 0.48	- 0.16	- 0.11	0.17	0.18	0.36	- 0.44
Co1: 1	Day of Month	1962	Aug. 19		21	22	23	24	25	27	28		30	31	Sept. 1		m	4	9	7	ထ	6	10	11	12	13	14	15	1.6	17

TABLE 7 : INDICES OF AIR WITH CONTINUOUS ANALTZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric Conc.	(mdd)		312.02	309.06	308.84	306.57	309.37	305.95			310.07	310.23	310.47	310.75	310.45	310.39	311.52	311.79	311.55	311.73			312,95	311.22	310.94	310.88	309.84	310.54	311.36	311.34
10	Air Index			311.93	309.50	309.32	309.10	309.75	310.23	310.18	310.56			310.66	310.89	310.f	310.55	311.52	311.74	311.54	311.69	313.27	311.57	312.69	311.27	311.04	310.99	310.14	310.71	311.39	311.37
6	rce Tank	Index		310.10							307.55	25 Average											310.99	5 Average							
8	Reference	<u>.</u>		3756							2426	September	•										2400	October 5							
7	Computed Index	Diff.		1.83	-0.60	-0.78	-1.00	-0.35	0.13	90.0	3.01		2.91	3.11	3.34	3.09	3.04	3.07	4.19	3.99	4.14	5.72	0.58		0.28	0.05	0,00	-0.85	-0.28	0.40	0.38
9	Recorder Scale	Factor		2.51																											
5	Adjusted Scale Difference			0.73	-0.24	-0.31	-0.40	-0.14	0.05	0.03	1.20		1.16	1.24	1.33	1.23	1.21	1.58	1.67	1.59	1.65	2.28	0.23		0.11	0.03	0.0	-0.13	-0.11	0.16	0.15
7	Barometric Pressure	(inches)		30.02	29.93	29.58	29.62	29.88	29.79	29.70	29.70)	29.60	29.66	29.88	30.09	29.94	29.80	29.77	29.76	29.84	29.86	29.86		29.73	29.75	29.98	30.13	30.14	30.36	•
3	Day of Compar-	fsons		43	43	25	18	87	36	53	19	ì	77	94	35	56	36	37	87	38	34	21	11		77	77	25	8	97	45	47
2	Observed Scale	Diff.		0.73	-0.24	-0.31	-0.40	-0.14	0.05	0.03	1.19	i i	1.15	1.23	1,32	1.23	1.21	1.57	1.66	1.58	1.64	2.27	0.23		0.11	0.02	0.00	-0.34	-0.11	0.16	0.15
-	J			18	19	0;	21	23	24	25	25) 	26	27	28	29	30	7	7	6	4	5	'n		9	7	ø	6	10	11	12
Co1:	Day of Month		1962	Sept.							•	- 8	38	_				Oct.													

TABLE 7 : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

77	Manometric	(add)		311.61	311.36	311.85	311.52	312.14	312.53	313.42	314.37	313.85	314.37	314.34	314.96	315.35	317.68	314.78	317.52	317.92	316.79	316.73	316.82	316.94	316.97	316.43	316.49	315.95	315.23	314.92	315.98
	Man			'n	E	E	m	'n	m	m	m	m	æ	æ	m	m	m	m	'n	m	m	m	<u></u>	m	m	m	m	m	m	m	m
10	Atr			311.59	311.39	311.79	311.52	312.03	312.35	313.08	313.86	313.43	313.86	313.83	314.34	314.66	316.57	314.19	316.44	316.77	315.84	315.79	315.87	315.97	315.99	315.55	315.60	315.15	314.56	314.31	315.18
6	ce Tank	Index		310.99				301.56																							
80	Reference	No.		2400				1001																							
7	Computed	Diff.		0.60	0.40	08.0	0.53	10.47	10.79	11.52	12.30	11.87	12.30	12.27	12.78	13.10	15.01	21.63	14.88	15.21	14.28	14.23	14.31	14.41	14.43	13.99	14.04	13.59	13.00	12.75	13.62
9	Recorder	Factor		2.51																				2.48							
S	Adjusted Scale			0.24	0.16	0.32	0.21	4.17	4.30	4.59	06.4	4.73	4.90	4.89	5.09	5.22	5.98	5.03	5.93	6.06	5.69	2.67	5.70	5.81	5.82	5.64	5.66	5.48	5.24	5.14	5.49
4	Barometric	(inches)		30.06	29.64	29.59	29.70	29.64	29.64	29.74	29.84	30.07	30.14	29.78	29.19	29.26	29.41	29.70	30.16	30,37	30.27	30.19	29.91	29.50	29.50	29.65	29.72	29.68	29.64	29.67	29.91
3	No. of	isons		48	44	47	21	19	04	77	87	24	87	36	17	48	48	48	848	47	84	32	87	48	848	48	47	87	34	28	24
2	Observed	Diff.		0.24	0.16	0.32	0.21	4.12	4.25	4.55	4.88	4.74	4.92	4. 86	4.96	5.09	5.86	4.98	5.97	6.14	5.74	5.71	5.68	5.72	5.73	5.88	5.61	5.43	5.18	5.08	5.47
	•			13	14	15	16	18	19	20	21	22	23	54	25	26	27	88	29	30	31	-	7	m	4	\$	9	7	æ	6	3.0
Co1:	Day of		1962	Set.								- 1	89	-								Nov.									

TABLE 7 : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

	1c																														
11	Manometric	(pg.		316.25	316.09	316.01	317.40	318.15	317.27	316.56	316.70	315.07	315.88	316.25	316.37	316.27	317.37	318.07	319,46	319,42	318.58	318.03	317.79	317.79	316.94	318.21	319.91	320.36	319.46	320.53	319.46
20	Alr	N N		315.40	315.27	315.20	316.34	316.96	316.24	315.65	315.77	315.25	315.10	315.40	315.50	315.42	316.32	316.89	318.03	318.00	317.31	316.86	316.66	316.66	315.97	317.01	318.40	318.77	318.03	318.91	318.03
6	ce Tank	Index		301.56																									314.85		
88	Reference			1001																									10072		
7	Computed	index Diff.		13.84	13.71	13.64	14.78	15.40	14.68	14.09	14.21	13.69	13.54	13.84	13.94	13.86	14.76	15.33	16.47	16.44	15.75	15.30	15.10	15.10	14.41	15.45	16.84	17.21	3.18	90.4	3.18
9	Recorder	Factor		2.48																									2.43		
\$	Adjusted Scale	Ulirerence		5.58	5.53	5.50	5.96	6.21	5.92	5.68	5.73	5.52	5.46	5.58	5.62	5.59	5.95	6.18	6.64	6.63	6.35	6.17	60.9	60.9	5.81	6.23	6.79	6.94	1.31	1.67	1.31
7	Barometric	(fuches)		30.24	30.27	30.10	30.10	30.22	30.11	29.77	29.26	29.26	29.43	29.80	30.06	29.83	29.41	29.35	29.57	29.75	29.86	29.98	30.01	29.89	29.88	29.98	29.96	29.96	30.21		30.46
3	No. cf	lsons		48	39	38	47	87	77	25	48	45	87	30	20	39	30	84	97	87	41	87	87	84	48	43	94	77	14	42	45
2	Observed	ocare Diff.		•	5.58	5.52	•	6.26	5.94	5.64	5.59	5.39	5.36	5.55	5.63	5.56	5.83	6.05	6.55	6.58	6.32	6.17	6.10	6.07	5.79	6.23	6.78		1.32		1.33
	·			11	12	13	14	15	1,	17	18	19	20	21	22	23	77	25	26	27	28	29	30	-	7	٣	4	2	9	7	∞
Co1:	Day of	Foncia	1962	Nov.							_		0											Dec.							

TABLE 7 : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric	Conc. (bba)		318.89	318.81	318.63	318.19	318.36	318.04	317.92	317.86	317.90	317.69	318.10	317.94	318.19	317.63	317.71	318.48	318.52	317.86	3174	318.72	318.54	317.92	318.27		318.63	318.13	318.72	318.66	320.11
10	Air	Index		317.57	317.50	317.35	316.99	317.13	316.87	316.77	316.72	316.75	316.58	316.92	316.79	316.99	316.53	316.60	317.23	317.26	316.72	316.79	317.43	317.28	316.77	317.06		317.35	316.94	317.43	317.38	318.57
6	nce Tank	Index		314.85																												
8	Reference	No.		10072																												
7	Computed	Index Diff.		2.72	2.65	2.50	2.14	2.28	2.03	1.92	1.87	1.90	1.73	2.07	1.94	2.14	1.68	1.75	2.38	2.41	1.87	1.94	2.58	2.43	1.92	2.21		2.50	2.09	2.58	2.53	3.72
9	Recorder	Scale		2.43																												
5	Adjusted Scale	Difference		1.13	1.09	1.03	0.88	96.0	0.83	0.79	0.77	0.78	0.71	0.85	0.80	0.88	0.69	0.72	0.98	0.99	0.77	08.0	1.06	1.00	0.79	0.91		1.03	0.86	1.06	1.04	1.53
7	Barometric	Pressure (inches)		30.30	30.16	30.00	29.89	29.73	29.96	29.98	29.92	29.76	29.75	30.03	30.45	30.67	30.27	29.86	30.12	30.06	30.59	30.79	30.79	30.36	30.16	30.11			•	30.32	•	
3	No. of	Compar- 1sons		47	848	848	84	87	77	45	87	42	38	54	46	84	87	47	46	43	46	97	48	45	48	84		97	24	94	23	15
2	Observed	Scale Diff.		1.13	1.10	1.03	0.88	0.93	0.83	0.79	0.77	0.77	0.70	0.85	0.81	0.00	0.70	0.72	96.0	65.0	0.79	0.82	1.09	1.61	0.19	0.91		1.03	0.87	1.07	1.04	1.55
Co1: 1	Day of	Month	1962	Dec. 9		11	12	13	14	15					20	21	22	23	24	25	56	27	28	29	30	31	1963	Jan. 1		-3	'n	7
												- 4	1-														•					

TABLE 7 : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric Conc. (ppm)		319.72	318.98	318.81	319.64	319.60			319.11	318.79	318.99	319.82	318.58	318.99	319.26	319.47	320.30	318.85	318.60	318.85	318.04	317.83	317.75	321.09	320.44	320.88	320.53	320.38	321.48	322.45
01	Air Index		318.25	317.64	317.50	318.18	318.15	318.01	317.09	317.75	317.48	317.65	318.33	117.31	317.65	317.87	318.04	318.72	317.53	317.33	317.53	316.87	316.70	316.63	319.37	318.84	319.20	318.91	318.79	319.69	320.49
6	nce Tank Index		314.85						314.27	3 Average																					
80	Reference No.		10072						4278	January 13	•																				
7	Computed Index Diff.		3.40	2.79	2.65	3.33	3.30	3.16	2.82		3.21	3.38	4.06	3.04	3.38	3.60	3.77	4.45	3.26	3.06	3.26	2.60	2.43	2.36	5.10	4.57	4.93	49.4	6.52	5.42	6.22
9	Recorder Scale Fartor		2.43																												
\$	Adjusted Scale Difference		1.40	1,15	1.09	1,37	1.36	1.30	1,16		1.32	1.39	1.67	1.25	1.39	1.48	1.55	1.83	1.34	1.26	1.34	1.07	3.00	0.97	2.10	1.88	2.03	1.91	1.86	2.23	2.56
-3	Saromet 1c Pressure (inches)		30.49	30.36	30.26	30,60	30.43	30,36	30,36		30,34	30.28	30,38	30.10	30.00	30.09	30.55	30.68	30.26	30.18	30.51	36.28	30.31	30,17	30.40	30.23	30.59	30,26	30.07	29.94	29.79
3	No. of Compar-		849	42	8 7	849	32	23	ď		4.7	48	87	949	87	87	87	42	47	29	8	77	87	87	47	48	39	47	48	48	87
7	Observed Scale		1.42	1.16	1.10	1.40	1.38	1,32	1.17		1.34		1.69	1.26	1.39	1.48	1.58	1.87	1,35	1.27	1.36	1.08	1.01	0.98	2,13	1.90	2.07	1.93	1.87	2.23	2.54
, -1	4 4	٦ 	œ	•	10		1 23	13	13	,	71		16	<u>, , , , , , , , , , , , , , , , , , , </u>	. 87	19	20	F (4	22	25	2¢	2,	80	29	30	,31 ,31	~	7	יי	t ~ (· •
	Day of Moath	1963	6								_	92	-														to the	•			

TABLE 7 : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

Observed No. of Scale Parcettic Adjusted Scale Scale Scale Recorder Scale Sc	-	č	3	77	5	9	,	8	6	10	11
c Comport Pressure Difference Scale Index Index 48 29-95 2.47 2.43 6.00 4278 314.27 320.27 48 30.08 2.42 2.43 5.88 320.15 320.15 48 30.06 2.24 2.42 5.88 314.27 320.27 48 30.04 1.87 4.54 314.27 318.81 46 30.55 1.76 4.28 318.18 46 30.57 1.76 4.28 318.18 46 30.59 1.54 3.74 318.46 47 30.59 1.54 3.74 318.46 48 29.49 1.66 4.15 318.48 47 30.59 1.46 3.55 314.48 319.64 48 29.94 1.71 4.16 4.26 314.48 319.64 49 30.09 1.91 4.64 4.64 4.26 314.48 319.64		Observed	No. of	Barcmetric		Recorder	Compute	deferen		Air	Manometric
48 29.95 2.47 2.43 6.00 4278 314.27 320.27 48 30.10 2.42 5.88 320.15 319.76 48 30.14 2.26 5.49 314.27 319.76 48 30.30 1.87 5.27 318.81 318.81 48 30.61 2.17 4.36 318.81 318.81 46 30.55 1.76 4.13 318.38 318.40 47 30.59 1.54 4.23 318.40 318.40 48 30.14 1.89 4.29 318.40 318.40 48 20.87 1.46 3.55 317.82 317.82 48 20.87 1.70 4.16 3.55 317.46 318.43 49 20.99 1.74 4.16 3.14.48 310.06 47 20.99 1.71 4.16 3.14.48 310.06 48 20.99 1.73 4.26 314.48		Scale	Compar-	Pressure (inches)	Difference	Scale	Index D1ff,	, N	Index	Index	Conc. (ppm)
48 29.95 2.47 2.43 6.00 4278 314.27 320.27 47 30.08 2.42 2.49 320.15 48 30.30 1.87 4.54 316.81 48 30.30 1.87 4.54 318.81 48 30.67 2.17 5.27 318.81 46 30.55 1.64 3.74 318.18 45 30.76 1.61 3.74 318.18 46 30.76 1.61 3.74 318.18 48 29.87 1.61 3.74 318.18 48 29.98 1.70 4.13 318.46 48 29.94 1.74 3.55 318.43 48 29.94 1.74 4.18 318.43 45 29.97 1.74 4.18 319.64 45 29.94 1.73 4.16 319.44 319.46 48 29.95 1.73 4.28 319.46											
47 30.08 2.42 5.88 320.15 48 30.14 2.26 5.49 319.75 48 30.14 2.26 5.49 319.75 48 30.61 2.17 4.28 319.75 48 30.67 1.76 4.23 318.35 46 30.71 1.61 3.74 318.18 47 30.59 1.54 3.74 318.18 48 29.87 1.76 4.13 318.40 47 29.87 1.46 3.55 4.28 318.40 48 29.87 1.46 3.55 4.28 317.82 48 29.99 1.21 4.79 4.79 318.46 49 30.10 1.72 4.28 319.46 319.46 40 30.20 1.72 4.28 319.46 319.46 40 30.20 1.72 4.28 319.46 319.46 40 30.20 1.72				29.95	2.47	2.43	6.00	4278	314.27	320.27	322.18
48 30.14 2.26 5.49 319.76 48 30.30 1.87 5.24 319.75 48 30.61 2.04 4.96 319.23 48 30.67 2.04 4.96 319.23 46 30.75 1.76 4.28 319.23 46 30.71 1.69 4.11 318.18 47 30.59 1.54 3.74 318.18 48 29.87 1.70 4.13 318.66 47 29.87 1.46 3.55 317.82 48 29.94 1.70 4.79 4.79 318.43 49 29.99 1.71 4.79 4.79 318.43 40 4.79 4.79 4.79 4.20 318.43 40 4.79 4.20 318.42 318.42 40 4.60 4.20 318.42 318.42 40 4.00 4.20 4.20 318.42 40		2.43	47	30,08	2.42		5.88			320.15	322.04
48 30.30 1.87 4.54 318.81 48 30.61 2.17 5.27 319.54 48 30.61 2.17 5.27 319.54 46 30.55 1.76 4.28 318.23 45 30.76 1.61 3.91 318.18 47 30.59 1.54 3.74 318.18 48 30.14 1.80 4.13 318.66 47 30.59 1.70 4.13 318.66 48 29.97 1.71 4.16 3.55 4286 314.48 319.06 47 30.09 1.91 4.59 4286 314.48 319.06 48 29.99 1.91 4.64 4.64 4.28 319.06 48 29.99 1.72 4.28 314.48 319.12 46 29.79 1.72 4.26 314.48 319.06 48 29.99 1.75 4.28 319.06 <		2.27	87	30,14	2.26		5.49			319.75	321.56
48 30.61 2.17 5.27 319.54 48 30.67 2.04 4.96 4.39 319.23 46 30.55 1.76 4.28 318.55 45 30.74 1.69 4.11 318.38 46 30.75 1.54 3.74 318.01 47 30.59 1.54 3.74 318.01 48 29.87 1.70 4.13 318.01 47 20.87 1.46 3.55 4.28 317.82 48 29.94 1.71 4.79 4.79 318.43 49 29.99 1.71 4.79 4.78 318.43 40 30.09 1.72 4.20 4.28 318.42 48 29.99 1.72 4.20 318.42 46 29.70 1.54 3.52 4.28 318.42 48 29.79 1.53 3.67 318.27 48 30.10 1.56 3.65 </td <td></td> <td>1.89</td> <td>87</td> <td>30.30</td> <td>1.87</td> <td></td> <td>4.54</td> <td></td> <td></td> <td>318.81</td> <td>220.41</td>		1.89	87	30.30	1.87		4.54			318.81	220.41
48 30.67 2.04 4.96 4.96 319.23 46 30.55 1.76 4.28 318.55 45 30.76 1.69 4.11 318.55 46 30.76 1.61 3.74 318.01 47 30.59 1.54 3.74 318.01 48 30.14 1.89 4.59 4.13 318.40 48 29.87 1.46 3.55 428 317.82 48 29.94 1.71 4.75 42.6 314.48 320.00 18 29.99 1.71 4.75 42.6 314.48 320.00 29 29.99 1.91 4.64		2.21	87	30.61	2.17		5.27			319.54	321.30
46 30.55 1.76 4.23 318.55 45 30.71 1.69 4.11 318.38 46 30.74 1.61 3.74 318.38 47 30.59 1.54 3.74 318.18 48 30.14 1.89 4.59 4.13 318.40 48 29.87 1.46 3.55 42.66 317.82 45 29.99 1.71 4.16 318.46 318.46 47 30.09 1.91 4.79 42.66 314.48 320.00 48 30.20 1.72 4.26 4.26 314.48 319.64 46 30.19 1.73 4.26 4.26 314.48 318.42 46 30.19 1.73 4.26 314.48 318.42 46 29.76 1.75 4.26 314.48 318.42 46 29.76 1.45 3.52 4.26 318.42 46 29.79 1.55		2.09	87	30.67	2.04		4.96			319.23	320.92
45 30.71 1.69 4.11 3.91 318.18 46 30.76 1.61 3.91 3.18.18 318.18 47 30.59 1.54 3.74 318.18 318.18 48 29.87 1.70 4.13 318.66 318.66 47 29.94 1.46 3.55 4.28 317.82 317.82 48 29.99 1.71 4.76 3.55 4286 319.06 47 30.09 1.91 4.26 4.28 319.66 48 30.20 1.73 4.28 4.20 318.42 46 29.76 1.73 4.28 4.28 318.66 48 29.88 1.62 3.94 4.28 318.42 46 29.79 1.51 4.28 3.67 318.13 48 29.79 1.56 3.65 3.65 318.00 48 30.11 1.86 4.52 4.52 318.00		1.79	46	30.55	1.76		4.23			318.55	320.09
46 30.76 1.61 3.91 318.18 47 30.59 1.54 3.74 318.18 48 29.87 1.89 4.59 318.66 48 29.87 1.46 3.55 318.66 48 29.94 1.71 4.16 318.43 45 29.91 1.71 4.16 317.82 45 29.99 2.27 4.79 318.43 47 30.09 1.91 4.64 4.26 314.48 319.66 47 30.09 1.72 4.18 4.20 318.66 46 30.19 1.72 4.20 318.42 46 29.76 1.45 3.52 318.42 46 29.76 1.55 3.52 318.42 46 29.76 1.56 3.65 318.12 46 29.76 1.56 3.65 318.12 46 29.79 1.56 3.65 318.12 46 <td></td> <td>1.73</td> <td>45</td> <td>30.71</td> <td>1.69</td> <td></td> <td>4.11</td> <td></td> <td></td> <td>318.38</td> <td>319.88</td>		1.73	45	30.71	1.69		4.11			318.38	319.88
47 30.59 1.54 3.74 318.01 48 30.14 1.89 4.59 318.66 48 29.87 1.70 4.13 318.66 48 29.87 1.46 3.55 4286 317.82 48 29.99 1.97 4.79 318.43 48 30.20 1.91 4.64 314.48 320.00 48 30.20 1.72 4.28 314.48 319.64 46 30.19 1.73 4.28 314.48 319.64 46 29.76 1.73 4.28 314.48 318.66 48 29.79 1.50 3.52 4286 314.48 318.42 48 29.79 1.50 3.52 4.28 318.42 48 29.79 1.56 3.67 318.13 48 29.79 1.56 4.52 318.00 48 30.01 1.86 4.52 318.00 48 <		1.65	94	30.76	1.61		3.91			318.18	319.64
48 30.14 1.89 4.59 318.66 48 29.87 1.70 4.13 318.40 48 29.87 1.46 3.55 315.82 48 29.99 1.71 4.79 317.82 48 29.99 1.71 4.79 318.43 49 1.97 4.79 314.48 320.00 40 30.29 1.91 4.64 320.00 48 30.20 1.72 4.26 314.48 319.12 48 29.78 1.62 3.94 318.42 48 29.79 1.51 3.52 318.42 48 29.79 1.51 3.57 318.13 40 29.70 1.56 3.79 318.13 48 30.11 1.86 4.52 319.00 48 30.01 1.86 4.52 319.00 48 30.01 1.86 4.52 319.00 48 30.01 1.86<		1.57	47	30,59	1.54		3.74			318.01	319.43
48 29.87 1.70 4.13 318.40 47 29.87 1.46 3.55 317.82 48 29.94 1.46 3.55 317.82 45 29.94 1.71 4.16 317.82 18 29.99 1.97 4.79 318.43 29 2.27 5.52 4286 314.48 320.00 40 30.20 1.91 4.64 4.28 319.64 48 30.20 1.72 4.28 318.65 48 29.88 1.62 3.94 318.65 48 29.76 1.45 3.52 3.67 318.15 48 29.76 1.55 3.52 3.67 318.15 40 29.76 1.56 3.79 318.13 40 29.79 1.56 3.67 319.00 48 30.01 1.86 4.52 319.00 48 30.01 1.86 4.52 319.00 48 30.01 1.86 4.52 318.49 48		90	87	30.14	1.89		4.59			318.86	320.47
47 29.87 1.46 3.55 317.82 48 29.94 1.46 3.55 317.82 45 29.94 1.46 3.55 317.82 45 29.99 1.71 4.79 318.43 29 2.27 4.79 4.78 320.00 47 30.09 1.91 4.64 4.26 314.48 320.00 48 30.20 1.72 4.26 4.26 318.42 48 29.88 1.62 3.54 318.42 46 29.76 1.45 3.52 3.52 318.13 46 29.79 1.56 3.79 318.13 47 29.79 1.56 3.79 318.13 48 30.11 1.86 4.52 319.00 48 30.01 1.86 4.52 319.00 48 30.01 1.86 4.52 319.00 48 30.01 30.01 4.52 319.49 <td></td> <td>1.69</td> <td>84</td> <td>29.87</td> <td>1.70</td> <td></td> <td>4.13</td> <td></td> <td></td> <td>318.40</td> <td>319.91</td>		1.69	84	29.87	1.70		4.13			318.40	319.91
48 29.94 1.46 3.55 317.82 45 29.91 1.71 4.16 318.43 18 29.99 1.97 4.79 319.06 29 29.99 2.27 5.52 4286 314.48 320.00 47 30.09 1.91 4.64 Average 319.64 48 30.20 1.72 4.18 318.66 46 29.76 1.62 3.94 318.66 48 29.79 1.51 3.67 318.15 4C 29.79 1.51 3.67 318.15 4C 29.79 1.56 3.67 318.13 4C 29.79 1.56 3.65 318.13 4C 29.98 1.50 3.65 318.13 4C 29.79 1.86 4.52 319.00 46 30.01 1.86 4.52 319.00 48 30.01 1.86 4.52 319.00 48		1.45	47	29.87	1.46		3.55			317.82	319.20
45 29.91 1.71 4.16 318.43 18 29.99 1.97 4.79 319.06 29 29.99 2.27 5.52 4286 314.48 320.00 47 30.09 1.91 4.64 Average 319.64 48 30.20 1.73 4.20 318.66 48 29.88 1.62 3.94 318.42 48 29.76 1.45 3.52 318.42 48 29.79 1.51 3.52 318.15 40 29.79 1.56 3.79 318.15 40 30.11 1.86 4.52 318.00 44 30.01 1.86 4.52 319.00 48 29.99 2.06 5.01 318.49		1.46	84	29.94	1.46		3.55			317.82	319.20
18 29.99 1.97 4.79 319.06 29 2.27 5.52 4286 314,48 320.00 47 30.09 1.91 4.64 Average 319.16 48 30.20 1.72 4.18 318.66 48 29.88 1.62 3.94 318.66 46 29.76 1.45 3.52 318.42 48 29.79 1.51 3.67 318.15 40 29.79 1.56 3.79 318.13 46 30.11 1.86 4.52 319.00 44 30.01 1.86 4.52 319.00 48 29.99 2.06 5.01 319.49		1.70	45	29.91	1.71		4.16			318,43	319.94
29 2.27 5.52 4286 314.48 320.00 47 30.09 1.91 4.64 February 21 Average 319.64 48 30.20 1.72 4.18 318.66 46 30.19 1.73 4.20 318.66 48 29.88 1.62 3.94 318.42 46 29.76 1.45 3.52 318.42 48 29.79 1.51 3.67 318.15 40 29.79 1.56 3.79 318.15 40 29.98 1.56 3.65 318.13 46 30.11 1.86 4.52 319.00 48 30.01 1.86 4.52 319.00 48 30.01 1.86 4.52 319.00 48 29.99 2.06 5.01 319.49		6.	18	29.99	1.97		4.79			319.06	
47 30.09 1.91 4.64 February 21 Average 319.64 48 30.20 1.72 4.18 319.12 46 30.19 1.73 4.26 318.66 48 29.88 1.62 3.94 318.42 46 29.76 1.45 3.52 318.42 48 29.79 1.51 3.67 318.15 40 29.70 1.56 3.79 318.15 40 29.98 1.50 3.65 318.13 48 30.11 1.86 4.52 319.00 48 30.01 1.86 4.52 319.00 48 29.99 2.06 5.01 319.49		(4	29	29.99	2.27		5.52	4286	314.48	320.00	
47 30.09 1.91 4.64 319.12 48 30.20 1.72 4.18 318.66 46 30.19 1.73 4.20 318.66 48 29.88 1.62 3.94 318.42 48 29.76 1.45 3.52 318.00 48 29.79 1.51 3.67 318.15 40 29.70 1.56 3.79 318.13 40 30.11 1.86 4.52 319.00 44 30.01 1.86 4.52 319.00 48 29.99 2.06 5.01 319.49									1 Average	319.64	321.42
48 30.20 1.72 4.18 318.66 46 30.19 1.73 4.20 318.66 48 29.88 1.62 3.94 318.42 46 29.76 1.45 3.52 318.00 48 29.79 1.51 3.67 318.15 40 29.70 1.56 3.79 318.13 40 30.11 1.86 4.52 319.00 44 30.01 1.86 4.52 319.00 48 29.99 2.06 5.01 319.49		1.92	47	30.09	1.91		79.7			319.12	320,78
46 30.19 1.73 4.20 318.58 48 29.88 1.62 3.94 318.42 46 29.76 1.45 3.52 318.00 48 29.79 1.51 3.67 318.15 40 29.70 1.56 3.79 318.15 22 29.98 1.50 3.65 318.13 48 30.11 1.86 4.52 319.00 44 30.01 1.86 4.52 319.00 48 29.99 2.06 5.01 319.49		1.73	87	30.20	1.72		4.18			318.66	320.22
48 29.88 1.62 3.94 318.42 46 29.76 1.45 3.52 3.18.00 48 29.79 1.51 3.67 318.15 40 29.70 1.56 3.79 318.27 22 29.98 1.50 3.65 318.13 48 30.11 1.86 4.52 319.00 49 29.99 2.06 5.01 319.49		1.34	97	30.19	1.73		4.20			318.58	320.25
46 29.76 1.45 3.52 318.00 48 29.79 1.51 3.67 318.15 4C 29.70 1.56 3.79 318.27 22 29.98 1.50 3.65 318.13 48 30.11 1.86 4.52 319.00 44 30.01 1.86 4.52 319.00 48 29.99 2.06 5.01 318.49		1.61	848	29.88	1.62		3.94			318.42	319.93
48 29,79 1.51 3.67 318,15 319 40 29,70 1.56 3.79 318,27 319 22 29,98 1.50 3.65 318,13 319 48 30,11 1.86 4.52 319,00 320 44 30,01 1.86 4.52 319,00 320 48 29,99 2.06 5.01 318,49 321		1.44	97	29.76	1.45		3.52			318.00	319.42
4C 29.70 1.56 3.79 318.27 319 22 29.98 1.50 3.65 318.13 319 48 30.11 1.86 4.52 319.00 320 44 30.01 1.86 4.52 319.00 320 48 29.99 2.06 5.01 319.49 321		•	848	29.79	1.51		3.67			318,15	319,60
22 29.98 1.50 3.65 318.13 48 30.11 1.86 4.52 319.00 44 30.01 1.86 4.52 319.00 48 29.99 2.06 5.01 318.49		•	740	29.70	1.56		3.79			318.27	319.75
48 30.11 1.86 4.52 319.00 44 30.01 1.86 4.52 319.00 48 29.99 2.06 5.01 313.49		1.56	22	29.98	1.50		3.65			318.13	319.58
44 30.01 1.86 4.52 319.00 48 29.99 2.06 5.01 319.49		1.87	87	30.11	1.86		4.52			319,00	320.64
48 29.99 2.06 5.01 319.49		1.86	77	30.01	1.86		4.52			319.00	320.64
		2.06	87	29.99	2.06		5.01			319.49	321.23

HOLENS CO.

TABLE 7 : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric Conc.	(mdd)		321.44	321.32	320.99	320.84	320.97	320.91	320.82	320.78	322.56	322.62	322.32	322.02	321.90	322.54	321.76	322.06	320.64	321.28	321.32	321.08	320.64	320.37	320.52	320.91	320.37	320.72	320.78	320.03	320.17
10	Air			319.66	319.56	319.29	319.17	319.27	319.22	319.15	319.12	320.58	320.63	320.38	320.87	320.04	320.56	319.92	320.17	319.00	319.53	319.56	319.36	319.00	318.78	318.90	319.22	318.78	319.07	319,12	318,50	318.62
6	nce Tank	Index		314.48																											315.56	
ဃ	Reference	No.		4236																											7362	
7	Computed Index	Diff.		5.18	5.08	4.81	69.7	61.79	4.74	4.67	79.7	6.10	6.15	5.90	6.39	5.56	6,08	5.44	5.69	4.52	5.05	5.08	88.7	4.52	4.30	4.42	4.74	4.30	4.59	4.64	2.94	3.06
ę	Recorder	Factor		2.43																												
\$	Adjusted Scale	1111000111		2,13	2.09	1.98	1.93	1.97	1.95	•	•	2.51	2.53	2.43	2.63	2.29	2.50	2.24	2.34	1.86	2.08	2.09	2.01	1.86	1.11	1.82	1.95	1.77	1.89	1.91	1.21	1.26
⋖\$	Barometric	(fuches)			30.06											29,93									29.81		30.42		30.05	30,38		29.89
m	No. of	1sous		47	47	7.7	87	87	48	78	848	47	87	87	31	87	29	29	36	9	87	1.4	i d	22	39	47	47	7.7	47	16	45	26
7	Observed	Diff.	+	c	2.09	1.98	1.92	1.97	1.97	1.96	1.93	2.54	2.54	2.44	2,61	2.23	2.50	2.25	2.15	1.84	2.07	2.07	2.02	1.83	1.76	1.85	1.98	1.77	1.89	6	•	2
Col: 1	يامد دون	ن.	1963			7	. φ	σ.	10	11	12		' -	15		17	18	6.	20	21	22	i C	24	25	26	28	29	30	31.	Anr		m

TABLE 7 : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

2		7	5	9	7	8		10	Manageria
S S	No. of Compar-	Barometric Pressure	Adjusted Scale Difference	Kecorder	Computed	Keterence	e Tank	Air Index	Manometric Conc.
tsons	รน	(fuches)		Factor	Diff.	No.	Index		(ppm)
H	_	30.35	1.29	2.43	3.13	7362	315.56	318.69	320,26
32		30.36	1.38		3.35			318.91	320.53
47		30.03	1.43		3.47			319.03	320.67
48		29.73	1.37		3.33			318.89	320.50
97		_	1.35		3.28			318.84	320.44
47		30.12	1.37		3.33			318.89	320.50
45		30.11	1.37		3.33			318.89	320.50
33		30.17	1.19		2.89			318.45	315.97
87		30.03	1.38		3.35			318.91	320,53
746		29.89	1.52		3.69			319.25	320.94
47		29.91	٠		3.86			319,42	321.15
87		29.92	1.55		3.77			319.33	321.04
46		29.99	1.52		3.69			319.25	320.94
42		30.21	1.50		3.65			319.21	320.89
97		30.42	1.66		4.03			319,59	321.36
97		30.29	1.55		3.77			319,33	321.04
47		30.06	1.68		4.08			319,64	321.42
34		29.62	1.57		3.82			319.38	321.10
47		29.42	1.60		3.89			319.45	321.19
94		29.69	1.58		3.84			319.40	321.12
47		29.85	1.64		3.99			319.55	321.31
45		29.85	1.69		4.11			319.67	321.45
47		29.79	1.70		4.13			319.69	321.48
97		25.76	1.58		4.08			319.64	321.42
47		29.73	1.74		4.23			319.79	321.60
48		29.72	1.55		3.77			319.33	321.04
45		29.84	1.60		3.89			319.45	321.19
97		29.82	1.83		4.			320.01	•
48		30.10	1.59		3.86			319.42	321.15

TABLE 7 : INDICES OF AIR WITH CONTINUOUS A.AL.YZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Nanometric	Conc.	(BCC)		3	321.49	325.58	330.66	320.63	37.5	323.74	320.83	326.93	320.87	320.93		319.24	319.77	319.50	319.42	319,36	319.50	319.56	319.17	319.21	319.21	319.03	318.76	318.86	318.44	318.14	318.82
10	Air	Index		319.69	319.94	319.70	318.95	319.02	318.99	319.21	319.33	319.16	319.24	319.19	319.24	218.44	317.85	318.29	318.07	318.00	317.95	318.07	318.12	317.80	317.83	317.83	317.68	317.46	317.54	317.20		317.51
6	ance Tank		Index	315.56	321.91																											
8	Reference		No.	7362	4284																											
7	Computed	Index	Diff.	6.13	-1.97	-2.21	-2.96	-2.83	-2.92	-2.70	-2.58	-2.75	-2.67	-2.72	-2.67	-3.47	-4.06	-3.62	-3.84	-3.91	-3.96	-3.84	-3.79	-4.11	-4.08	-4.08	-4.23	-4.45	-4.37	-4.71	96.4-	-4.40
9	Recorder	Scale	Factor	ក ជ. ភ.																												
5	Adjusted Scale	Difference	,	1.70	-0.81	-0.4]	-1,22	-1.19	-1.20	-1.11	-1.06	-1.13	-1.10	-1.12	-1.10	-1.43	-1.67	-1.40	-1.58	-1.61	-1.63	-1.58	-1.56	-1.69	-1.68	-1.68	-1.74	-1.83	-1.80	-1.94	-2.04	-1.81
7	Sarometric	Pressure	(inches)	91.75	68	68.67	30.26	30.44	26.44	30.22	30,21	30.38	30.30	30.25	30.10	30.00	29.78										-			30.08		
3	.0. of	Congar-	1 sons	<i>ù</i> •	្	7.7	46	& 7	17.7	17	47	87	46	87	97	27	97	74	97	47	41	47	47	17	16	97	47	45	47	97	19	13
2	Observed	Scale	Diff.	6 · · · · · · · · · · · · · · · · · · ·		16.0-	-1.23	•	•	-1.12		•		-1.13	-1.10	-1.43	•	-1.48	•	•	•	•		•	-1.67		•	-1.84				
	ų. O				Ċ.	0,7	: ~4 : ::}	22	13	5.5	25	26	27	28	59	30	31			٣	7	'n	5	7	12	13	14	1.5	91	17	18	19
Col:	AB(:								_ (96					June														

TABLE 7 : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

9 10 11	Tank Air Yan	Index (ppm)		321.91 317.78 319.15	317.78 319.15		316.93 318.11		317.03 518.24	317.54 318.86	317.32 318.59	316.93 318.11	317.03 318.24	316.20 317.23			מייות מרימדה			316.14 316.19 316.19		316.14 316.14 316.19 315.56 314.73	316.14 316.19 316.19 315.56 314.73	316.14 316.19 316.19 315.56 314.73 315.29	316.14 316.14 316.19 315.56 314.73 315.29 315.29	316.19 316.19 316.19 315.56 315.29 315.29 315.58	316.15 316.14 316.19 315.56 315.29 315.12 315.58 315.32	316.15 316.14 316.19 315.56 315.29 315.29 315.38 315.32	316.15 316.14 316.19 315.56 315.29 315.29 315.38 315.32 315.32	316.13 316.14 316.19 315.56 315.29 315.29 315.32 315.32 315.32	316.14 316.14 316.14 315.26 315.29 315.29 315.32 315.32 315.32
	Reference			4284 32											3757 31						4272 31										
80	<u> </u>	No.		42											37						42	42	42	45.	42	42	42.	45.	45.	42	45
7	Computed	Index Diff.		-4.13	-4.13	-4.37	-4.98	-5.18	-4.88	-4.37	-4.59	-4.98	-4.88	-5.71	3.74	4.20		3.84	3.84 3.84 3.89	3.84 3.89	3,84 3,89 3,84 3,28	3.84 3.84 3.28	3.84 3.88 3.28 3.28 3.01	3 84 3 88 3 28 3 28 2 45 2 45 2 84	3 84 3 2 84 3 2 84 3 2 84 3 3 0 1 3 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3 84 2 2 8 8 8 9 4 5 8 9 6 5 9 6 5 9 6 6 9 6 6 6 6 6 6 6 6 6 6	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 2 2 2 2 2 3 3 3 4 3 5 5 6 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
9	Recorder	Factor		2.43																											
5	Adjusted Scale	Difference		-1.70	-1.70	-1.80	-2.05	-2.13	-2.01	-1.80	-1.89	-2.05	-2.01	-2.35	1.54	1.73	35 -	200.4	1.60	1.58	1.60 1.58 1.35	1.58	1.60 1.58 1.35 1.01	1.60 1.58 1.35 1.01 1.24	1.58 1.38 1.01 1.17 1.17	1.58 1.58 1.01 1.17 1.08	1.58 1.35 1.17 1.08 1.08	1.56 1.58 1.24 1.17 1.08 1.08 1.25	1.56 1.58 1.24 1.24 1.08 1.25 1.50	1.56 1.38 1.124 1.08 1.25 1.50 1.50	1.56 1.58 1.12 1.03 1.50 1.50 1.50
7	Barometric	Pressure (inches)		6	79.82		,	ં	o.	6	σ.	െ	6	29.77	29.68	29.75	,, ,,	99.67	29.66 29.52	29.66 29.52 29.89	29.89 29.89 29.98	29.52 29.89 29.98 29.95	29.52 29.89 29.98 29.95 30.05	29.52 29.89 29.98 30.05	29.52 29.89 29.98 30.05 30.08	29.52 29.89 29.98 30.05 30.01 29.90	29.52 29.89 29.98 30.05 30.01 30.01	29.52 29.89 29.98 30.05 30.01 30.01 30.01	29.52 29.52 29.98 30.05 30.01 30.01 30.15	29.55 29.52 29.89 29.95 30.05 30.01 30.05 30.05	29.52 29.89 29.98 30.08 30.01 30.01 30.01 29.78
3	No. of	Compar-		47	47	97	4.5	45	47	848	97	46	23	47	97	87	•	4.5	47	47 38	45 47 30	47 30 47 47 47	47 30 47 46	47 47 30 47 47	47 47 47 47 46	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
2	Observed	Scale Diff.		-1.70	-1.69	·	· ~	7		-		-2.03	-2.01	-2.33	1.52	1.72		1.56	1.56 1.57	1.56 1.57 1.58	1.56 1.58 1.35	1.56 1.58 1.35	1.56 1.57 1.35 1.01	1.56 1.57 1.35 1.01 1.12	1.56 1.57 1.35 1.24 1.17	1.56 1.57 1.35 1.24 1.36 1.36	1.56 1.57 1.35 1.24 1.36 1.36	1.56 1.57 1.35 1.124 1.36 1.28	1.56 1.57 1.35 1.12 1.36 1.42 1.42	1.56 1.57 1.35 1.36 1.36 1.42 1.50	1.56 1.57 1.35 1.36 1.36 1.42 1.43
	3(20	2.1	2.2	ائ س	24	52	3. 2.6	27	28	29	30	-	2		~	m 4	w 4 r 0	2 4 10 10	24506	m 4 77 40 70 80	m 4 50 60 60 60	n 4 50 9 7 8 9 7 9 1	1109876543	1110 9 8 7 6 5 4 3 1110	22110087654 22110	2 1 1 1 1 0 0 8 4 6 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	11 12 10 0 8 0 0 5 5 5 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 10 10 10 10 10 10 10 10 10 10 10 10 1
Co 1:	Day of	Month	1963	Jun.								•	97	_	July																

TABLE 7 : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric Conc. (ppm)		313.63	314.14	312.53	312,53	312.53	310.38	310.46	308.13	308.62	310.64	308.41	312.12	312.51	311.35	311.35	311.02	310.88	311.85	311.21	309.78	308,95	308.39	309.16	309.72	309.07	338.24	308.24	307.98
10	Air Ha		•												312.33		311.38												308.83	308.61
ļ	- A		m	m	m	m	m	m	m	ñ	ñ	m	m	m	m	m	~	37)	eri	m	٣	m	Ē	Ü	c	m	m	Ü	ň	ñ
6	Reference Tank		312.28						314.49																					
8	Referen		4272						18204																					
,	Computed Index Diff.		0.97	1.39	0.07	0.07	0.0	-1.70	-3.84	-5.78	-5.35	-3.69	-5.52	-2.48	-2.16	-3.11	-3.11	-3.38	-3.50	-2.70	-3.23	-4.40	-5.08	-5.54	-4.93	-4.45	86.4-	-5.66	-5.66	-5.88
9	Recorder Scale Factor		2.43																											
5	Adjusted Scale Difference		0.40	0.57	0.03	0.03	0.03	-0.70	-1.53	-2.38	-2.20	-1.52	-2.27	-1.02	-0.89	-1.28	-1.28	-1.39	-1.44	-1.11	-1.33	-1.81	-2.09	-2.28	-2.02	-1.83	-2.05	-2.23	-2.33	-2.42
	Barometric Pressure (inches)		29.76	29.96	29.95	29.79	29.65	29.45	29.53	29.69	29.65	29.82	29.75	30.01	29.82	\sim	29.59	29.62	29.67	29.83	29.91	29.69	29.52	29.49	29.58	30.07	30.11	30.08	30.03	29.82
က	No. of Compar- isons		43	47	46	69	47	41	77	87	46	48	97	34	41	20	94	87	42	87	46	47	97	48	46	36	34	28	48	979
2	Observed Scale Diff.		0.40	0.57	0.03	0.03	0.03	-0.69	-1.56	-2.36	-2.18	-1.51	-2.25	-1.02	-0.88	-1.27	-1.26	-1.37	-1.42	-1.10	-1.33	-1.79	-2.06	-2.24	-1.99	-1.84	-2.06	-2.34	-2.33	-2.41
1	1		18	19	20	21	22	23	77	25	5 6	27	28	29	30	31	-	7	<u>س</u>	4	· v 1	9	7	. 00	σ	10	1	12	13	14
Co1:	Day of Month	1963	July							_	9	8	-				Aug.	, ,												

TABLE 7 : INDICES OF AIR WITT CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric	Conc.		308.95	309,01	308.27	309.45	309.04	308.57	307.11	306.44	307.44	311.50	308.95	308,68	311.70	311.14	311.83	310.11	309.86	310.13	310.07	308.00	308.15	308.41	308.48	308.54	309.33	308.29	308.89	311.97
16	Air	Index		309.41	309.46	308.85	309.82	309.48	309.10	307.90	307.35	308.17	311.50	309.41	309.19	311.67	311.21	311.77	310.36	310.16	310.38	310.33	308.63	308.75	308.97	309.02	309.07	309.72	308.87	309.36	311.89
σ	ace Tank	Index		314.49																			312.30								
80	Reference	No.		18204																			3757								
7	Computed	Index D1ff.		-5.08	-5.03	-5.64	-4.67	-5.01	-5.39	-6.59	-7.14	-6.32	-2.99	-5.08	-5.30	-2.82	-3.28	-2.72	-4.13	-4.33	-4.11	-4.16	-3.67	~3.55	-3.33	-3.28	-3.23	-2.58	-3.43	-2.94	-0.41
9	Recorder	Scale		2.43																											
5	Adjusted Scale	Difference		-2.09	-2.07	-2.32	-1.92	-2.05	-2.22	-2.71	-2.94	-2.60	-1.23	-2.09	-2.18	-1.16	-1.35	-1.12	-1.70	-1.78	-1.69	-1.71	-1.51	-1.46	-1.37	-1.35	-1.33	-1.06	-1,41	-1.21	-0.17
4	Barometric	Pressure (inches)		29.42	29.71	29.59	29.58	30.01	30.00	29.97	29.62	29.57	29.80	29.65	29.70	29.93	30.03	30.08	29.97	30.05	30.13	30.09	30.11	30.15	30.20	30.22	30.22	30.20	30.17	30.09	30.03
3	No. of	Compar-		45	47	848	46	84	47	33	48	40	47	45	87	97	87	97	87	84	45	37	20	46	87	48	34	œ	32	87	47
2	Observed	Scale Diff.		-2.05	-2.05	-2.29	-1.89	-2.06	-2.22	-2.71	-2.91	-2.56	-1.22	-2.07	-2.16	-1.16	-1.35	-1.12	-1.70	-1.78	-1.70	-1.72	-1.52	-1.47	-1.38	-1.36	-1.34	-1.07	-1.42	-1.21	•
Co1: 1	Day of	Month	1963	Aug. 15		1.7	18	19	20	21	22		72 99	1 25	26	27	28	29	30	31	Sept. 1		9	7	æ	6	10	11	12	13	14

TABLE 7: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

S 1:		2	3	4	٤	5	7	80	6	10	11
Day of Month	444	Observed Scale Diff.	No. of Compar- isons	Barometric Pressure (inches)	Adjusted Scale Difference	Recorder Scale Factor	Computed Index D1ff.	Refere No.	Reference Tank No. Index	Air	Manometric Conc. (ppm)
1963											
Sept.	15	-0.82	87	29.94	-0.82	2.43	-1.99	3757	312.30	310.31	310.05
•	91	-0.36	97	29.66	-0.36		-0.87			311.43	311.41
	17	-0.74	32	29.75	-0.75		-1.82			310.48	310.25
	18	-0.72	84	30.01	-0.72		-1.75			310.55	310.34
	19	-0.71	97	30.07	-0.71		-1.73			310.57	310.36
	20	-0.31	84	29.75	-0.31		-0.75			311.55	311.56
	21	-0.89	47	29.79	-0.90		-2.19			310.11	309.80
	22	-1.09	45	29.95	-1.09		-2.65			309.65	309.24
-	23	-1.07	6	29.95	-1.07		-2.60	4272	312.28	309. FR	309.28
10	24	0.17	87	29.80	0.17		0.41			312 🎨	312.95
00	25	1.82	87	29.70	1.84		4.47			3163	317.90
-	56	0.22	20	29.66	0.22		0.53			312.81	313.09
	27	-0.06	'n	29.46	-0.06		-0.15			312.13	312.27
	28	0.94	٥٠	29.34	96.0		2.33			314.61	315.29
	29	0.40	84	29.40	0.41		1.00			313.28	313.67
	30	-0.11	848	29.65	-0.11		-0.27			312.01	312.12
Oct.	4	-0.20	45	29.85	-0.20		-0.49			311.79	311.85
	2	-0.27	47	29.91	-0.27		-0.66			311.62	311.64

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

No. b) No. of Barometric Adjusted Recorder Computed Reference Teak Air Index No. biff. Index I	Col: 1	2	m	-17	\$	9	7	8	6	10	11
Month Scale Compart Presente Scale Index No. Index 1964 1 sons (Inches) 91ff. Pactor D1ff. No. Index 1964 2.3 2.9 42 1032.0 2.94 2.28 6.70 18206 310.70 1965 3.1 1041.5 3.24 7.38 7.39 4.00 107.1 3.56 8.34 8.34 9.07 10.70 3.00 9.35 9.34 9.35 9.34 9.35<	Day of	Observed	No. of	Barometric	Adjusted	Recorder	Computed	Refere		Alr	Mancwetric
1964 1.5	Month	Scale Diff.	Compar- isons	Pressure (inches)	Scale Diff.	Scale Factor	Index Diff.	No.	Index	Index	Cone.
Dec. 31 2.99 42 1032.0 2.94 2.28 6.70 18206 310.70 Jan. 1 3.32 17 1041.5 3.24 7.39 7.39 310.70 Jan. 1 3.32 17 1041.2 3.24 7.39 7.39 7.39 7.39 7.39 7.39 7.39 7.39 7.39 7.39 7.39 7.39 7.39 7.39 7.39 7.39 7.39 7.39 7.39 8.34 9.34 9.34 9.35	1964										
1965 . . . 7.39 Jan. 1 3.32 17 1041.5 3.24 7.39 Jan. 1 3.35 1037.7 3.66 8.13 4 1041.2 3.56 8.13 4 4 3.66 8.13 7.55 8.13 7.55 8.13 7.55 8.12 7.55 8.12 8.12 8.12 8.12 8.12 8.12 8.12 8.12 8.12 8.12 9.12 9.12 9.12 9.12 9.12 9.12 9.12 9.12 9.12 9.12 9.12 9.12 9.12 9.12 9.12 9.12 9.13 9.1		2.99	42	1032.0	2.94	2.28	6.70	18206	310.70	317.40	318.69
Jan. 1 3.32 17 1041.5 3.24 7.39 4 2.65 40 1037.7 3.66 8.34 7.55 5 3.35 46 1027.2 3.31 7.66 8.12 6 3.35 46 1025.4 3.36 7.66 8.12 7 3.52 42 1025.0 3.36 7.66 7.66 8 3.40 43 1020.5 1.90 4.33 11097 313.82 10 1.91 43 1020.5 1.90 4.71 11097 313.82 11 1.95 43 1020.5 1.90 4.73 11097 313.82 12 2.29 43 1020.5 1.90 4.74 7.73 13 3.40 3.15 3.29 3.29 4.75 1.18 14 3.40 3.15 3.29 4.75 1.28 15 3.40 3.15 3.29 4.75	1965			•							
3 3.74 39 1037.7 3.66 8.34 4 2.65 40 1041.2 3.56 8.12 5 3.35 46 1025.4 3.31 7.55 6 3.39 44 1025.4 3.36 7.82 7 3.52 44 1025.4 3.36 7.82 8 3.61 25 1041.6 3.52 6.03 10 1.91 43 1020.5 1.90 4.33 11 1.95 35 100.2 2.25 5.13 11 1.95 34 1017.0 3.15 7.73 11 1.95 34 1017.0 3.15 7.16 13 3.40 3.15 7.16 7.16 14 3.40 1017.0 3.14 7.16 15 3.43 1017.0 3.14 7.16 16 3.13 41 1017.0 3.14 7.16 17 <td></td> <td></td> <td>74</td> <td>1041.5</td> <td>3.24</td> <td></td> <td>7.39</td> <td></td> <td></td> <td>318.09</td> <td>319.53</td>			74	1041.5	3.24		7.39			318.09	319.53
4 2.65 40 1041.2 3.56 8.12 5 3.35 46 1027.2 3.31 7.55 6 3.35 46 1027.2 3.36 7.66 7 3.52 42 1022.4 3.43 7.86 8 3.61 25 1041.6 3.52 8.03 17.82 10 1.91 43 1020.5 1.96 4.47 11097 313.82 11 1.95 3.5 1002.5 1.96 4.47 4.42			39	1037.7	3.06		8.34			319.04	320.69
5 3.35 46 1027.2 3.31 7.55 6 3.29 44 1025.4 3.36 7.66 7 3.52 44 1025.4 3.36 7.66 8 3.61 25 1041.6 3.52 8.03 11097 313.82 9 2.29 43 1031.6 2.25 5.13 11097 313.82 10 1.91 43 1020.5 1.96 4.70 4.71 11 1.95 3.6 3.15 7.73 11097 313.82 11 3.40 31 1017.0 3.39 7.73 11087 313.82 16 3.40 3.15 7.73 7.73 7.73 7.73 16 3.40 3.10 3.29 3.29 7.50 7.50 17 3.10 41 1017.0 3.29 7.50 7.25 18 3.20 48 1010.0 3.29 7.50 7.20 </td <td>4</td> <td></td> <td>40</td> <td>1041.2</td> <td>3.56</td> <td></td> <td>8.12</td> <td></td> <td></td> <td>318.82</td> <td>320.42</td>	4		40	1041.2	3.56		8.12			318.82	320.42
6 3.39 44 1025.4 3.36 7.66 7 3.52 42 1062.0 3.43 7.82 8 2.29 43 1034.6 2.25 5.13 11097 313.82 10 1.91 43 1020.5 1.96 4.37 11097 313.82 11 1.95 35 1020.5 1.96 4.47 4.70 12 2.07 38 1020.0 2.06 4.70 7.13 14 3.40 31 1017.0 3.39 7.73 7.13 15 3.63 38 1017.0 3.26 8.25 8.25 16 3.15 7.23 7.20 7.20 7.20 18 3.32 7 1017.0 3.24 7.55 19 2.51 19 1011.1 2.52 5.75 20 2.53 46 1010.7 3.31 7.55 21 3.10 4	5		46	1027.2	3,31		7.55			318.25	319.72
7 3.52 42 1062.0 3.43 7.82 8 3.61 25 1061.6 3.52 8.03 10 1.29 43 1020.5 1.96 4.33 11 1.95 35 1010.2 1.96 4.47 12 2.07 28 1020.0 2.06 4.47 13 2.07 28 1020.0 2.06 4.70 14 3.16 34 1017.0 3.13 7.13 15 3.40 31 1017.0 3.14 7.16 17 3.30 41 1017.0 3.14 7.16 18 3.12 41 1017.0 3.14 7.16 19 4.1 1017.0 3.14 7.16 10 1.0 3.24 7.55 20 2.53 46 1010.7 2.54 5.75 21 3.19 4.3 1014.5 3.19 7.27 22 </td <td>·</td> <td></td> <td>44</td> <td>1025.4</td> <td>3.36</td> <td></td> <td>7.66</td> <td></td> <td></td> <td>318.36</td> <td>319.86</td>	·		44	1025.4	3.36		7.66			318.36	319.86
8 3.61 25 1041.6 3.52 8.03 10 1.29 43 1031.6 2.25 5.13 11097 313.82 10 1.91 43 1001.2 1.90 4.47 4.70			42	1042.0	3.43		7.82			318.52	320.05
9 2.29 43 1031.6 2.25 5.13 11097 313.82 10 1.91 43 1020.5 1.90 4.37 11097 313.82 11 1.95 3.5 1020.5 1.96 4.77 4.77 13 2.07 28 1020.0 2.06 4.70 4.77 14 3.40 31 1017.0 3.15 7.73 7.73 15 3.63 38 1017.0 3.14 7.16 7.16 16 3.13 41 1017.0 3.14 7.50 7.50 18 3.32 7 1017.0 3.14 7.50 7.55 19 2.51 19 1011.1 2.52 5.75 5.75 20 2.53 46 1010.7 2.54 5.75 5.75 21 3.19 4.3 1014.5 3.19 7.27 22 3.50 48 1024.9 3.85 8.78 </td <td></td> <td></td> <td>25</td> <td>1041.6</td> <td>3.52</td> <td></td> <td>8.03</td> <td></td> <td></td> <td>318.73</td> <td>320.31</td>			25	1041.6	3.52		8.03			318.73	320.31
10 1,91 4,3 1020.5 1,90 4,33 11 1,95 35 1010.2 1,96 4,47 12 2,07 28 1020.0 2,06 4,70 13 3,16 34 1017.0 3,15 7,18 14 3,40 31 1017.0 3,62 8,25 15 3,63 38 1017.0 3,14 7,16 17 3,30 41 1017.0 3,29 7,50 18 3,32 7 1017.0 3,29 7,50 19 2,51 19 1011.1 2,52 5,75 20 2,53 46 1010.7 2,54 5,75 21 3,19 43 1014.5 3,49 7,96 22 3,50 48 1024.9 3,49 7,96 24 4,25 47 1029.9 4,19 9,55 25 5,26 12 1031.1 5,18 11,81 11 3,74 32 1026.0 3,70 8,44 12 5,11 19 1034.3 4,42 11,633 310.79 12 5,11 19 1034.3			43	1031.6	2.25		5.13	11097	313.82	318.95	320.58
11 1.95 35 1010.2 1.96 4.47 12 2.07 28 1020.0 2.06 4.70 13 3.16 34 1017.0 3.35 7.73 15 3.63 38 1017.0 3.62 8.25 16 7.15 37 1017.0 3.14 7.16 17 3.30 41 1017.0 3.29 7.50 18 3.32 7 7.50 19 2.51 19 1017.0 3.31 7.55 20 2.51 19 1010.7 2.52 5.75 21 3.19 43 1014.5 3.19 7.26 22 3.50 48 1019.7 3.49 7.96 23 3.89 45 1024.9 3.85 8.78 24 4.25 47 1029.9 4.19 9.55 25 5.26 12 1031.1 5.18 11.81 7 3.74 32 1026.0 3.70 8.44 11 3.74 32 1034.3 4.42 100.08 13 4.50 27 1034.3 4.42 100.08			£. 4	1020.5	1.90		4.33			318.15	319.60
12 2.97 28 1020.0 2.06 4.70 13 5.16 34 1017.0 3.15 7.18 16 3.40 31 1017.0 3.39 7.73 15 3.63 38 1017.0 3.39 7.16 16 3.15 3.39 7.23 7.16 17 3.30 41 1017.0 3.14 7.16 18 3.32 7 1017.0 3.31 7.50 19 2.51 19 1011.1 2.52 5.75 20 2.53 46 1010.7 2.54 5.75 21 3.19 43 1014.5 3.19 7.27 22 3.50 48 1019.8 3.49 7.26 23 3.69 45 1024.9 3.85 8.78 24 4.25 47 1029.9 4.19 9.55 25 5.26 12 1031.1 5.18 11.81 10 3.74 32 1026.0 3.70 8.44 11 3.74 32 1026.0 3.70 8.44 12 5.11 19 4.42 10.08 13			35	1010.2	1.96		4.47			318.29	319.77
13 5.16 34 1017.0 3.15 7.18 14 3.40 31 1017.0 3.39 7.73 15 3.40 31 1017.0 3.36 8.25 16 3.15 3.29 7.76 17 3.30 41 1017.0 3.14 7.16 17 3.30 41 1017.0 3.29 7.50 18 3.32 7 1017.0 3.31 7.55 19 2.51 19 1011.1 2.52 5.75 20 2.53 46 1010.7 2.54 5.75 21 3.19 4.3 1014.5 3.19 7.27 22 3.50 48 1019.8 3.49 7.96 23 3.89 45 1024.9 4.19 9.55 24 4.25 47 1029.9 4.19 9.55 25 5.26 12 1031.1 5.18 11.81 10 3.74 32 1026.0 3.70 8.44 11 3.74 32 1026.0 3.70 8.44 12 1034.3 4.42 10.08 310.79	12		28	1020.0	2.06		4.70			318.52	320.05
14 3.40 31 1017.0 3.39 7.73 15 3.63 38 1017.0 3.62 8.25 16 3.15 37 1017.0 3.14 7.16 17 3.30 41 1017.0 3.29 7.50 18 3.32 7 1017.0 3.31 7.55 19 2.51 19 1011.1 2.52 5.75 20 2.53 46 1010.7 2.54 5.75 21 3.19 43 1014.5 3.19 7.27 22 3.50 48 1024.9 3.49 7.96 23 3.89 45 1024.9 4.19 9.55 24 4.25 47 1029.9 4.19 9.55 25 5.26 12 1031.1 5.18 11.81 10 3.54 32 1026.0 3.70 8.44 11 3.74 32 1026.0 3.70 8.44 12 5.11 19 10.42 4.42 10.08 13 4.50 27 10.42 4.42 10.08	13		34	1017.0	3.15		7.18			321.00	323.07
15 3.63 38 1017.0 3.62 8.25 16 1.15 37 1017.0 3.14 7.16 17 3.30 41 1017.0 3.29 7.50 18 3.32 7 1017.0 3.29 7.55 19 2.51 19 1011.1 2.52 5.75 20 2.53 46 1010.7 2.54 5.79 21 3.19 43 1014.5 3.19 7.27 22 3.50 48 1019.8 3.49 7.96 23 3.89 45 1024.9 3.85 8.78 24 4.25 47 1029.9 4.19 9.55 25 2.6 12 1031.1 5.18 11.81 10 3.74 32 1026.0 3.70 8.44 11 3.74 32 1034.3 4.42 10.08 13 4.50 27 1034.3 4.42 10.08	14		31	1.017.0	3.39		7.73			321.55	323.74
16 7.15 37 1017.0 3.14 7.16 17 3.30 41 1017.0 3.29 7.50 18 3.32 7 1017.0 3.29 7.55 19 2.51 19 1011.1 2.52 5.75 20 2.53 46 1010.7 2.54 5.75 21 3.19 43 1014.5 3.19 7.27 22 3.50 48 1019.8 3.49 7.96 23 3.89 45 1024.9 3.85 8.78 24 4.25 47 1029.9 4.19 9.55 25 5.26 12 1031.1 5.18 11.81 10 3.54 37 8.03 18208 312.40 11 3.74 32 1026.0 3.70 8.44 11633 310.79 12 5.11 19 1034.3 4.42 10.08 11.47 11633 310.79	15		38	1017.0	3.62		8.25			322.07	324.38
17 3.30 41 1017.0 3.29 7.50 18 3.32 7 1017.6 3.31 7.55 19 2.51 19 1011.1 2.52 5.75 20 2.53 46 1010.7 2.54 5.79 21 3.19 43 1014.5 3.19 7.27 22 3.50 48 1019.8 3.49 7.96 23 3.89 45 1024.9 3.85 8.78 24 4.25 47 1029.9 4.19 9.55 25 5.26 12 1031.1 5.18 11.81 25 5.26 17 1029.7 3.52 8.03 18208 312.40 11 3.74 32 1026.0 3.70 8.44 11.47 11633 310.79 12 5.11 19 1031.0 5.03 11.47 11633 310.79 13 4.50 27 1034.3 4.42 10.08 11.63	16		37	1017.0	3.14		7.16			320.98	323.05
18 3.32 7 1017.6 3.31 7.55 19 2.51 19 1011.1 2.52 5.75 20 2.53 46 1010.7 2.54 5.79 21 3.19 43 1014.5 3.19 7.27 22 3.50 48 1019.8 3.49 7.96 23 3.89 45 1024.9 3.85 8.78 24 4.25 47 1029.9 4.19 9.55 25 5.26 12 1031.1 5.18 11.81 25 5.26 17 1027.7 3.52 8.03 18208 312.40 11 3.74 32 1026.0 3.70 8.44 11.47 11633 310.79 12 5.11 19 1031.0 5.03 11.47 11633 310.79 13 4.50 27 1034.3 4.42 10.08 10.09	17		41	1017.0	3.29		7.50			321.32	323.46
19 2.51 19 1011.1 2.52 5.75 20 2.53 46 1010.7 2.54 5.79 21 3.19 43 1014.5 3.19 7.27 22 3.50 48 1019.8 3.49 7.96 23 3.89 45 1024.9 3.85 8.78 24 4.25 47 1029.9 4.19 9.55 25 5.26 12 1031.1 5.18 11.81 25 5.26 17 1027.7 3.52 8.03 18208 31 3.74 32 1026.0 3.70 8.44 11 3.74 32 1031.0 5.03 11.47 11633 12 5.11 19 1031.0 5.03 10.08 11.47 11633 310.79	18		7	1017.6	3.31		7.55			321.37	323.53
20 2.53 46 1010.7 2.54 5.79 21 3.19 43 1014.5 3.19 7.27 22 3.50 48 1019.8 3.49 7.96 23 3.89 45 1024.9 3.85 8.78 24 4.25 47 1029.9 4.19 9.55 25 5.26 12 1031.1 5.18 11.81 10 3.54 17 1027.7 3.52 8.03 18208 312.40 11 3.74 32 1026.0 3.70 8.44 11.47 11633 310.79 12 5.11 19 1031.0 5.03 11.47 11633 310.79 13 4.50 27 1034.3 4.42 10.08 10.08	19		19	1011.1	2.52		5.75			319.57	321.33
21 3.19 43 1014.5 3.19 7.27 22 3.50 48 1019.8 3.49 7.96 23 3.89 45 1024.9 3.85 8.78 24 4.25 47 1029.9 4.19 9.55 25 5.26 12 1031.1 5.18 11.81 10 3.54 17 1027.7 3.52 8.03 18208 312.40 11 3.74 32 1026.0 3.70 8.44 11.47 11633 310.79 12 5.11 19 1031.0 5.03 11.47 11633 310.79 13 4.50 27 1034.3 4.42 10.08 10.08	20		95	1010.7	2.54		5.79			519.61	321.38
22 3.50 48 1019.8 3.49 7.96 23 3.89 45 1024.9 3.85 8.78 24 4.25 47 1029.9 4.19 9.55 25 5.26 12 1031.1 5.18 11.81 10 3.54 17 1627.7 3.52 8.03 18208 312.40 11 3.74 32 1026.0 3.70 8.44 11633 310.79 12 5.11 19 1031.0 5.03 11.47 11633 310.79 13 4.50 27 1034.3 4.42 10.08	2,1		43	1014.5	3.19		7.27			321.09	323.18
23 3.89 45 1024.9 3.85 8.78 24 4.25 47 1029.9 4.19 9.55 25 5.26 12 1031.1 5.18 11.81 10 3.54 17 1027.7 3.52 8.03 18208 312.40 11 3.74 32 1026.0 3.70 8.44 11.47 11633 310.79 12 5.11 19 1031.0 5.03 11.47 11633 310.79 13 4.50 27 1034.3 4.42 10.08	22	3.50	87	1019.8	3.49		7.96			321.78	324.03
24 4.25 47 1029.9 4.19 9.55 25 5.26 12 1031.1 5.18 11.81 10 3.54 17 1021.7 3.52 8.03 18208 312.40 11 3.74 32 1026.0 3.70 8.44 12 5.11 19 1031.0 5.03 11.47 11633 310.79 13 4.50 27 1034.3 4.42 10.08	23	3.89	45	1024.9	3.85		8.78			322.60	325.02
25 5.26 12 1031.1 5.18 11.81 10 3.54 17 1627.7 3.52 8.03 18208 312.40 11 3.74 32 1026.0 3.70 8.44 12 5.11 19 1031.0 5.03 11.47 11633 310.79 13 4.50 27 1034.3 4.42 10.08	24	4.25	47	1029.9	4.19		9.55			323.37	325.96
10 3.54 17 162°, 7 3.52 8.03 18208 312.40 11 3.74 32 1026.0 3.70 8.44 12 5.11 19 1031.0 5.03 11.47 11633 310.79 13 4.50 27 1034.3 4.42 10.08	25	5.26	12	1031.1	5.18		11.81			325.63	328.72
11 3.74 32 1026.0 3.70 8.44 12 5.11 19 1031.0 5.03 11.47 11633 310.79 13 4.50 27 1034.3 4.42 10.08	~	•		1027.7	3.52		8.03	18208	312.40	320.43	322.38
2 5.11 19 1031.0 5.03 11.47 11633 310.79 3 4.50 27 1034.3 4.42 10.08	~	•	32	1026.0	3.70		8.44			320.84	322.88
3 4.50 27 1034.3 4.42 10.08	12		19	1031.0	5.03		11.47	11633	310.79	327.26	324.61
	13	'n	27	1034.3	4.42		10.08			320.87	322.92

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric Conc. (ppm)		323.05	324.22	322.47	321.44	321.61	323.70	322.08	321.33	323.61	325.58	323.14	326.19	323.22	320.30	322.92	323.92	324.39	324.27	325.11	324.74	322.53	321.97	322.38	323.61	323.46	322.66	323.35	323.61	323.81	323.14
10	Alr Index		320.98	321.94	320.50	319.66	319.80	321.51	320.18	319.57	321.44	323.06	321.05	323.56	321.12	318.72	320.87	321.69	322.08	321.98	322.67	322.37	320.55	320.09	320.43	321.44	321.32	320.66	321.23	321.44	321.60	321.05
6	ce Tank Index		310.79														•															
8	Reference No.		11633																													
7	Computed Index Diff.		10.19	11.15	9.71	8.87	9.03	10.72	9.39	8.78	10.65	12.27	10.26	12.77	10.33	7.93	10.08	10.90	11.29	11.19	11.88	11.58	9.16	9.30	79.6	10.65	10.53	9.87	10.44	10.65	10.81	10.26
9	Recorder Scale Factor		2.28																													
\$	Adjusted Scale Diff.		4.47	4.89	4.26	3.89	3.95	4.70	4.12	3.85	4.67	5.38	4.50	5.60	4.53	3.48	4.42	4.78	4.95	4.91	5.21	5.08	4.28	4.08	4.23	4.67	4.62	4.33	4.58	4.67	74.74	4.50
4	Barometric Pressure (inches)		1025.6	1023.4	1029.9	1037.2	1043.3	1042.8	1031.7	1022.5	1022.8	1026.4	1027.7	1027.4	1020.4	1014.1	1013.6	1012.7	1011.7	1015.2	1017.2	1016.0	1010.3	1008.0	0999.1	1021.3	1029.9	1028.0	1038.4	1043.3	1044.3	1039.5
e.	No. of Compar- Isons		15	27	16	87	97	87	84	94	46	35	46	43	43	97	45	6 7	32	26	14	27	13	6	12	27	45	77	47	87	48	97
2	Observed Scale		4.52	4.93	•	3.97	۰	4.83	4.19	œ	4.70	2.44	4.55	5.67	4.55	3.48	4.43	4.17	4.93	4.91	5.22	5.09	4.26	•		4.70		•	•	•		•
1 100	Day of Month	1965	Feb. 15		17	18	19	20	21	22	23	24	25	26	27	28	Mar		l en	**	•	• •	7	œ	6	10	11	12	13	14	15	16

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric	Conc. (ppm)		322.96	322.83	322.88	322.75	322.47	322.50	322.36	325.01	324.79	324.68	324.40	324.27	324.15	324.60	324.23	323.79	323.62	323.82	324.01	323.88	323.93	324.15	324.01	324.01	324.51	323.71	321.90	323.07	324.38	323.21
10		Index		320.91	320.80	320.84	320.73	320.50	320.53	320.42	322.59	322.41	322.32	322.09	321.98	321.88	322.25	321.95	321.59	321.45	321.61	321.77	321.66	321.70	321.88	321.77	321.77	322.18	321.52	320.04	321.00	322.07	321.11
6	nce Tank	Index		310.79							312.40																						
œ	Reference	No.		11633							18208																						
7	Computed	Index Diff.		10.12	10.01	10.05	9.64	9.71	9.14	9.62	10.19	10.01	9.92	69.6	9.58	9.48	9.85	9,55	9.19	9.05	9.21	9.37	9.26	9.30	9.43	9.37	9.37	9.78	9.12	7.64	8.60	6.67	8.71
9	Recorder	Scale Factor		2.28																													
\$	Adjusted	Scale Diff.		4.44	4.39	4.41	4.36	4.26	4.27	4.22	4.47	4.39	4.35	4.25	4.20	4.16	4.32	4.19	4.03	3.97	4.04	4.11	90.7	4.08	4.16	4.11	4.11	4.29	4.00	3,35	3.77	47.34	3.82
4	Barometric	Pressure (inches)		1032.0	1020.0	1021.4	1030.4	1022.9	1020.3	1023.0	1024.2	1021.5	1014.5	1017.8	1012.7	1009.0	1002.4	1002.0	1009.6	1007.8	0996.1	1004.0	1007.2	1003.7	1002.8	1010.7	1020.4	1008.8	1017.5	1039.2	1030.6	1022.8	1021.3
Э	No. of	Compar-		97	97	87	97	87	97	20	20	77	94	17	4 8	27	20	45	84	47	45	45	97	47	43	87	77	19	28	17	43	34	07
2	Observed	Scale Diff.		4.51	4.41	77.7	4.43	4.29	4.29		4.51	4.42	4.35	4.26	4.19	4.14	4.26	4.14	4.01	3.94	3.96	4.07	4.03	4.03	4.11	4.09	4.13	4.26	4.01	3.43	3.83	4.27	3.84
Co1: 1	Day of	Month	1965	Mar. 17	18	19	20	21	22	23	27	28	29	30	31	Apr. 1	2	m	4	٤٦	9	7	∞	6	10	11	12	13	14	20	21	22	23

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric	(Eba)		323.29	323.07	323.01	321.30		•	323.60	323.76	324.03	324.49	324.40	324.16	14 768	226.20	323.23	,25.13	325.23			325.77	326.13	326.16	326.16	326.34	325.58	323.87	324.99	325.65			323.88
10	Afr	Times		321.18	321,00	320.95	319.54	321.25	321.71	321.43	321.56	321.78	322.16	322.09	321.89	17 27	10.220	327.82	322.69	322.77	322.71	323.30	323.21	323.51	323.53	5, 3, 53	3.68	323.06	321,65	322.57	323.11	321.92	321.24	321.66
6	nce Tank	Index		312.40						April 28 Average							000	309.65				307.42	May 10 Average										315.42	May 19 Average
ω	Reference	No.		18208						April 2							,	11111				10073	May 10										10072	May 19
7	Computed	ulff.		6.78	8.60	8.55	7.14	8.85	9.31		9.16	9.38	9.76	69.6	69.6		9.91	13.17	13.04	13.12	13.06	15.88		16.09	16.11	16.11	16.26	15.64	14.23	15.15	15.69	14.50	5.82	
9	Recorder	Scale		2.28					1.16																									
5	Adjusted	Scale Diff.		3.85	3.77	3.75	3,13	3,88	8.03		7.90	8.09	8.41	3.5	ο α ο α	0.0	3.04	11.35	11.24	11.31	11.26	13.69		13.87	13.89	13.89	14.02	13.48	12.27	13.05	13.53	12.50	5.02	
4	Barometric	Pressure (inches)		1018.7	1015.7	1012.2	1011.8	1012.5	1011.3		1015.5	1009.9	0.663	5 0000	0.000	T-0/6/0	1007.4	1016.3	1020.1	1025.0	1026.0	1028.5		1027.2	1027.0	1627.9								
3	No. of	Compar- 1sons		41	77	97	87	28	18		97	77	7.7	. 7	, v	0	30	17	97	77	m	17		38	35	<u>ന</u> ന	33	77	44	97	20	;·	£.4	ı
2	Observed	Scale Diff.		00	3.77	3.74	3.12	3.87	8.00		•	8.05	200	77.0	(T. 0	±0.0	8.47	11.36		11.41	11.37			14.04	14.04	14.06	14.20					12.46		
Co1: 1	Day of	Month	1965	Anr. 24		26	27	28	28		29	30			7 6	^	7	7	œ	6	10	57.	,	,-1	7.5	13	1	- 1	16	17	18	19	10	i

TABLE 7a : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXXDF PROJECT

Col: 1	2	3	7	5	\$		æ	6	10	11
Day of Month	Observed Scale	No. of Compar-	Barometric Fressure (inches)	Adjusted Scale Diff.	Recorder Scale Factor	Computed Index Diff.	Reference Tauk	re Isuk	Alr Index	Menometric Conc. (ppm)
1965										
MAY 20	5.15	31	1.012.5	5.17	1.16	90.9	10072	315.42	321.42	323,59
		6	1.005.0	5.61		6.51			521.93	324,23
22		42	1,006.5	25.9		8.09			323.51	326.13
23	60.9	77	1011.8	6.13		7.09			322.51	325.91
74		75	1015.5	6.30		7.31			372.73	325.18
25		37	1014.9	5.58		6.59			322.03	
26		47	1017.5	5.39		6.25			321.67	323.49
		<u>(3</u>	1071.6	5.87		6.81			322.23	•
28		42	1022.0	5.33		6.18			321.60	323.83
29		67	1022.2	5.27		8.11			321.53	323.72
30	5.38	48	1623.7	5.34		6.19			321.61	• •
31		87	1019.8	5.42		6.29			321.71	523.94
June	5.85	27	1019.7	5.84		6.17			322.19	324.52
	S	24	1012.4	1.53	2.49	3.93			319.35	321.06
11	0.88	28	1015.8	0.88	4.75	4.18			319.60	321.37
12	0.86	87	1013.5	0.86		60.4			319.51	521.26
13	0.86	47	1013.3	0.86		60.4			319.51	321.28
14	0.84	38	1015.6	1.00		4.75			320.17	322,06
15	0.83	45	1020.6	0.83		3.94			319.36	321.09
16	78.0	84	1016.8	0.84		3.99			319.41	321,14
17	0.79	4.5	1012.8	0.79		3.75			319.17	320.84
18	08.0	41	1012.3	C.8.		3.80			319.22	320.91
22	1,61	25	1620.0	1.60		7.60	10066	211.73	319.33	321.04
23	3.60	84	1016.0	1.50		7.60			319.33	321.04
77	1.51	47	1012.6	1.51		7.17			318.90	320.52
25	1.50	49	1014.3	1.50		7.13			∞.	320.47
79	1.60	48	1018.2	1.60		7.60			319.33	321.04
27	1.56	47	1018.3	1.56		7.41			319.14	320.81
28	1.57	8,1	1017.3	1.57		7.46			319.19	320.87
29	1.63	84	1013.9	1.63		7.34			319.47	321.21
30	1.53	87	1011.0	1.54		7.32			319.05	320.70

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

**	Manometric	(bia)		318.43	318.32	318.66	318.85	318.08	318.79	316.47	316.87	316.81	314.73	315.60	316.01	316.35	316.93	315.65	314.09	314.15	315.19	314.73	315.30	315.02	314.73	314.85	314.26	314.15	313.52	312.18	312.83
10		Index.		317.19	317.10	317.38	317.53	317.72	317.48	315.58	315.91									313.68	314.53	314.15	315.44	314.39	314.15	314.25	313.77	313.68	313.16	90.	312.59
٥	ce Tank	Index		311.73																											
œ	Reference	No.		10066																											
7	Computed	Index Diff.		5.46	5.37	5.65	5.80	5.99	5.75	3.85	4.18	4.13	2.42	3.14	3.47	3.75	4.23	3.18	1.90	1.95	2.80	2.42	3.71	2.66	2.42	2.52	2.04	1.95	1.43	0.33	0.86
9	Recorder	Scale Factor		4,75																											
5	Adjusted	Scale Diff.		1.15	1.13	1.19	1.22	1.26	1.21	0.81	0.88	0.87	0.51	99.0	0.73	0.79	68.0	0.67	0.40	0.41	0.59	0.51	0.78	0.56	0.51	0.53	0.43	0.41	0.30	0.07	0.18
4	Barometric	Pressure (inches)		1009.0	1109.0	1005.2	1006.5	1011.8	1017.4	1018.8	1017.4	1018.0	1026.3	1025.8	1021.5	1018.0	1014.2	1010.9	1009.8	1007.2	1007.9	1012.8	1014.3	1012.9	1018.5	1021.8	1023.4	1028.2	1028.1	1023.8	1021.5
3	No. of	Compar- isons		87	84	94	87	848	87	87	87	48	97	31	97	87	45	87	87	47	45	87	84	87	87	47	87	97	77	34	37
2	Observed	Scale Diff.		1.14	1.23	1.18	1.21	1.25	1.21	0.81	0.88	0.87	0.52	0.67	0.73	0.79	0.89	0.67	0.40	0.41	0.59	0.51	0.78	0.56	0.51	0.53	0.43	0.41	0.30	0.07	0.18
Co1: 1	Day of	Month	1965	July 1		د،	7	5	9	7	8	6	10	11	12	13	14	15	16	17	18	15	20	21	22	23	24	25	26	27	28

TABLE : INDICES OF AIR WITH CONTINUOUS ANALYZER BARROM, ALASKA CARBON DIOXIDE PROJECT

11	¥.	(ppm)				.78 313.06		.93 308.37						.16 311.08			.31 310.05			.31 310.05	.02 309.69	.60 309.18	.50	310.60		311.60 311.62		311.32 311.28				
10		ex Index		311.73 313.30	313	312.78	310.87	308.93	312.02	311.25	312.06	311.54	310.97	311.16	310.26	308,59	312.78 310.31	310.21	310.07	310.31	310.02	309.60		307.42 310	Average 311		309.84	311	309	310	309.99	
8	Reference Tank	No. Index		10066 311													18207 312							10073 307	August 17 Av							
7	Computed	Index Diff.		1.57	1.43	1.05	- 0.86	- 2.80	0.29	- 0.48	0.33	- 0.19	- 0.76	- 0.57	- 1.47	- 3.14	- 2.47	- 2.57	- 2.71	- 2.47	- 2.76	- 3.18					2.42	3.90	2.57	3.14	2.57	
Q.	Recorder	Scale		4.75																												
S	Adjusted	Scale Diff.		0.33	0.30	0.22	- 0.18	- 0.59	0.06	- 0.10	0.07	- 0.04	- 0.16	- 0.12	- 0.31	- 0.66	- 0.52	- 0.54	- 0.57	- 0.52	- 0.58	- 0.67	- 0.27	0.67		0.88	0.51	0.82	0.54	99.0	0.54	
4	Barometric	Pressure (inches)		1025.9	1024.7	1017.3	1010.9	1004.3	1005.9	1010.1	1012.5	1020.0	1017.0	1009.9	1005.2	0.9660	1003.5	1007.6	1004.9	1003.9	1007.4	1009.7	1009.5	1012.1		1009.1	1009.2	1006.5	1014.7	1009.8	1004.0) · · ·)
3	No. of	Compar-		46	45	47	87	37	36	36	47	47	47	87	47	77	37	94	87	47	94	38	25	14		47	77	97	87	97	48)
2	Observed	Scale Diff.	1	0.33	0.30	0.22	- 0.18	o	90.0	- 0.10	0.07	÷0.0	- 0.16	- 0.12	-0.31	- 0.65	- 0.56	- 0.54	- 0.56	- 6.51	- 0.58	- 0.67	- 0.27	0.67		0.87	0.51	0.81	0.54	0.66	0.53	7
Co1: 1	Day of	Month	1965	July 29		31	Aug. 1	2	m	7	\$. .	^	0 0	6	10	11	12	13	14	15	16	17	17		18	19	20	21	22	۲,	

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

301: 1	2	3	-3	5	9	7	80	6	10	11
Day of	Observed	No. of	Barometric	Adjusted	Recorder	Computed	Reference	ce Tank	Air	Manometr1c
Month	Scale Diff.	Compar-	Pressure (1.nches)	Scale Diff.	Scale Factor	Index Diff.	ж.	Index	Index	Conc.
1965										
Aug. 25	•	97	1019.7	0.62	4.75	2.95	10073	307.42	310.37	310.12
	0.58	77	1019.1	0.58		2.76			310.18	309.89
27	•	47	1022.0	0.49		2.33			309.75	309.37
28	ς.	43	1025.5	0.56		2.66			310.08	309.77
29	•	87	1020.9	0.53		2.52			309.94	309.60
30	•	47	1013.9	0.52		2.47			309.89	309.54
31	0.50	87	1015.9	0.50		2.38			309.80	309.43
Sept. 1	0.50	47	1021.8	0.50		2.38			309.80	309.43
	0.51	87	1027.9	0.50		2.38			309.80	309.43
ı m	0.54	4.5	1029.5	0.53		2.52			309.94	309.60
• • • •	0.53	87	1027.6	0.52		2.47			309.89	309.54
Ş	0.55	47	1022.4	0.55		2.61			310.03	309.71
9	0.53	47	1015.1	0.53		2.52			309.94	309.60
7	0.50	45	1015.8	0.50		2,38			309.80	309.43
x 0	0.53	25	1017.4	0.53		2.52			309,94	309.60
6	1,35	42	1017.5	1.35		6.41			313.83	314.34
10	1.01	87	1017.6	1.01		4.80			312.22	312.38
11	0.47	77	1020.2	0.47		2.23			309.65	309.24
12	0.67	45	1920.3	0.67		3.18			310.60	310.40
13	0.80	45	1014.2	0.80		3.80			311.22	311.16
14	0.63	46	1006.9	0.64		3.04			310.46	310.23
15	0.71	4 8	1005.9	0.72		3.42			310.84	310.69
16	0.78	97	1009.7	0.78		3.71			311.13	311.05
17	0.68	97	1014.8	0.68		3.23			310.65	310.46
18	0.68	47	1022.0	0.68		3.23			310.65	310.46
19	0.64	87	1024.4	0.63		2.99			310.41	310.17
20	0.57	48	1024.0	0.57		2.71			310.13	309.83
21		17	1025.3	0.58		2.76			310.18	
21	0.87	10	1028.0	0.86		60.4	11669	305.46	310.55	
						Se	September 2	21 Average	310.32	310.06

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

Co1: 1	2	3	4	5	5	7	8	6	10	11
Day of	Observed	No. of	Barometric	Adjusted	Recorder	Computed	Referenc	ce Tank	Air	Manometric
Month	offf.	1sons	(inches)	Diff.	Factor	Diff.	Š	Index		(- dd)
1965										
Sept.22	•	31	1024.1	0.87	4.75	4.13	11669	306.46	310.59	310,39
	0.80	97	1015.9	0.80		3.80			310.26	309.99
24	•	47	1011.0	•		3.71			310.17	305.88
25	•	97	1072.8	0.83		3.94			310.40	210.16
26		87	1002.8	1.28		90.9			312.54	312.77
27	•	47	1005.6	1.12		5.32			311.78	311.84
28	•	42	1008.7	1.01		78.8 0			311.26	311.21
29	1 17	45	1017.0	1.14		5.42			311.88	311.96
30	1.20	45	1020.4	1.19		5.65			312.11	312.24
0ct. 1	1.24	87	1016.5	1.24		5.89			312.35	312.53
7	1,27	47	1015.2	1.27		6.03			312.49	312.70
3	1,66	47	1012.2	1.66		7.89			314.35	314.97
4	1.53	87	1015.1	1.53		7.27			313.73	314.22
\$	1.39	57	1011.0	1.40		6.65			313.11	313.46
9	•	87	1003.2	1.33		6.32			312.78	313.06
7	•	97	1003.3	1.52		7.22			313.68	314.15
&	•	4.7	1004.7	•		11.67			317.53	318.85
6	2.19	27	1005.0	2.21		10.50			316.96	318.15
10	•	47	1003.3	2.60		12.35			318.81	320.41
11	•	48	9.8660	2.03		6.64			316.10	317.10
12		87	1002.7	1.65		7.84			314.30	314.91
13	•	84	1006.9	2.25		10.69			317.15	318.38
14	•	87	1008.3	•		14.54			321.00	323.07
15	•	87	1006.3	2.75		13.06			319.52	321.27
16	•	47	5.8660	2.58		12.26			318.72	320,30
17	•	87	0998.2	2.00		9.50			315.96	316.93
18	•	31	1000.9	1.70		8.08			314.54	315.20
19	1.90	97	1002.2	1.92		9.12			315.58	316.47
20	2.01	48	8.3660	2.05		9.74			316.20	317.23
21	7	77	1001.1	2.14		10.17				317.75
22	2.43	(7	7.5660	2.48		11.78			318.24	319.71

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DICZIDE PROJECT

11	Manometric	(pbg)		317.69	317.57	317.29	316.53	316.24	316.18			315.97	316.04	316.10	316.74	317.90	320.61	317.20	317.37	317.32	318.65	319.05	318.76	318.59	O .7	318.53	318.35	317.90	318.02	00	Œ.	318.94
10	Afr	Tudex		316.58	316.48	316.25	315.63	315.39	315.34	315.44	314.57			315.28	315.80	316.75	318.98	316.18	316.32	316.28	317.37	317.70	317.46	317.32	317.65	317.27	317.13	316.75	316.85	316.99	317.37	317.61
6	ice Tank	Index		306.46							300.41	· 29 Average																				
80	Reference	No.		11669							10076	October																				
7	Computed	Index Diff.		10.12	10,02	9.79	9.17	8,93	8.88	8.98	14.16		14.82	14.87	15.39	16.34	18.57	15.77	15.91	15.87	16.96	17.29	17.05	16.91	17.24	16.86	16.72	16.34	16.44	16.58	16.96	17.20
9	Recorder	Scale		4.75																												
5	Adjusted	Scale Diff.		2,13	2.11	2.06	1.93	1.88	1.87	1.89	2.98		3.12	3.13	3.24	3.44	3.91	3.32	3.35	3.34	3.57	3.64	3.59	3.56	3.63	3.55	3.52	3.44	3.46	3.49	3.57	3.62
4	Barometric	Pressure (inches)		0994.5	1004.1	1011.5	10:5.7	10.01	1078.0	10.9.5	10.11.2		10:11.2	10 7.4	1051.3	1024.5	10,3.5	10.4.7	1014.9	1006.5	1014.4	1020.2	1025.2	10.12.3	1005.2	8.7660	1007.8	0993.5	9.8660	1010.2	1014.9	1004.9
3	No. of	Compar- 1sons		45	87	87	47	87	47	25	11		87	48	26	43	87	87	43	48	87	87	47	47	45	41	87	4.5	87	7 8	8 7	47
2	Observed	Scale Diff.		2.09	2.09	2.05	1.93	1.89	1.88	1.90	3.00		3.14		3.29	3.47	3,90	3.32	3,35	3,31	3.57	3.66	3.63	3.55	3.59	3.49	3.47	3.37	3.40	3.47		3.58
Co1: 1	Day of	Konth	1965	Oct. 23		25	26	27	28	29	50	i	30	31	Nov. 1		i ĉ	7	U.	· ve	1-	∞	6	10	11	12	13	14	15	16	17	18

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric Conc. (ppm)		318.99	318.13	317.86	318.30	319.11	319.46	318.82	318.88	318.30	317.60	319.46	321.37	320.10	319.64	321.14	318,42	318.19	318.71			318.71	318.93	318,99	318.59	318.70	318.76	319.05
10	Air Index		317.65	316.94	316.80	317.08	317.75	318.03	317.51	317.56	317.08	316.51	318.03	319.60	318.56	318.18	319.41	317.18	316.99	317.42	317.37	317.79	317.42	317.60	317.65	317.32	317.41	317.46	317.70
6	nce Tank Index		300.41																			319.93	7 Average						
80	Reference No.		10076																			10063	December						
7	Computed Index Diff.		17.24	16.53	16.39	16.67	17.34	17.62	17.10	17.15	16.67	16.10	17.62	19.19	18.15	17.71	19.00	16.77	16.58	17.01	16.96	- 2.14		- 2.33	- 2.28	- 2.61	- 2.52	- 2.47	- 2.23
9	Recorder Scale Pactor		4.75																										
٧	Adjusted Scale Diff.		3.63	3.48	3.45	3.51	3.65	3.71	3.60	3.61	3.51	•	3.71	4.04	3.82	3.74	4.00	3.53	•	3.58	3.57	- 0.45		67.0 -	- 0.48	- 0.55	- 0.53	- 0.52	- 0.47
4	Barometric Pressure (inches)		5.7660	1004.5	10.5.8	1024.8	1014.4	1003.6	1003.0	0997.2	1001.6	1009.7	9.8650	0.5050	1007.0	1000	1006.9	1017.2	1016.7	1016.2	1013.4	1012.0		1009.4	1008.7	1011.0	1010.7	1012.9	1014.3
3	No. of Compar- isons		35	87	87	87	87	43	87	36	97	48	48	87	87	87	87	87	87	87	77	9		87	87	848	87	87	35
2	Observed Scale Diff.		3.57	3.44	3.45	3.54	3.65	3.67	3,56	3,55	3.46	3.37	3.65	3.96			•		•	•	3.56	•		67.0 -	7	ς.	- 0.53	2	- 0.47
Co1: 1	Day of Month	1965	Nov. 19	7	21	22	23	24	25	26	27	28	29	30	Dec. 1		· m	7	S	9	7	7		80	6	10	=======================================	12	13

TABLE 7a : INDICES OF AIR WITH CONTINUOUS ANALTZER BARROW, ALASKA CARBON DICKIDE PROJECT

Col: 1	2	3	7	5	9	7	80	6	10	11
Day of	Observed	No. of	Barometric	Adjusted	Recorder	Computed	Reference	ce Tank	Afr	Manometric
Month	Scale Diff.	Compar- 1sons	Pressure (inches)	Scale Diff.	Scale	Index Diff.	No.	Index	Index	Conc.
1965			†							
Dec. 14	- 0.47	84	1010.0	- 0.47	4.75	- 2.23	10063	319.93	317.70	319.05
	0	42	1007.8	- 0.50		- 2.38			317.55	318.87
16	٠.	87	1014.2	- 0.52		- 2.47			317.46	318.76
17	٠,	87	1018.9	- 0.55		- 2.61			317.32	313.59
	0.5	87	1009.4	- 0.53		- 2.52			317.41	318.70
6	0.5	47	1003.5	- 0.54		- 2.57			317.36	318.64
20	7.0	87	1005.3	- 0.43		- 2.04			317.89	319.28
21	0.4	8 7	1003.4	- 0.47		- 2.23			117.70	319.05
22	0	84	1015.3	- 0.42		- 2.00			317.93	319.33
2 :	7	87	1737.5	- 0.42		- 2.00			317.93	319.33
24	7.0	84	1040.8	- 0.41		- 1.95			317.98	319.39
25	0.3	87	1024.2	- 0.32		- 1.52			318.41	319.92
26	0.3	45	1013.1	- 0.31		- 1.47			318.46	319.98
27	0.3	87	1011.3	- 0.38		- 1.81			318.12	319.56
28	- 0.33	87	1019.2	- 0.33		- 1.57			318.36	319.86
29	0.2	87	1023.4	- 0.22		- 1.05			318.88	320.49
300	0.2	47	1015.1	- 0.26		- 1.24			9	320.26
31	- 0.21	94	1023.3	- 0.21		- 1.00			318.93	326.55
5.5										
an. 1	•	8 7	1028.5	- 0.21		- 1.00			318.93	320.55
		77	1917.2	- 0.26		- 1.24			318.69	320.26
~ ،	C	31	1015.8	- 0.27		- 1.28			318.65	320.21
7	c	83	1011.0	- 0.31		- 1.47			318.46	319.98
	c	97	1012.0	- 0.25		- 1.19			318.74	320.32
· •c	c	77	1015.1	- 0.35		- 1.66			318.27	319.75
· ~	0	4.5	1023.1	- 0.19		06.0 -			319.03	320.67
- α	0	87	1021.7	- 0.21		- 1.00			318.93	320.55
0		27	1020.5	. •		- 1.09			318.84	
σ	Η.	19	1020.6	- 1.32		- 6.27			318.65	
							January 9	Average	318.76	320.34

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

Scale Observed No. of Barometric Adjusted Pecorder Computed Com	Co1: 1	2	3	7	5	9	7	80	6	70	11
15 - 0.86 46 1028.7 - 0.85 4.75 - 4.04 10068 324.92 320.88 321.17 322.17	Day of Month	Observed	of of	Barometric Pressure	Adjusted Scale	Pecorder Scale	Computed	Referen	e l	Air	Manometric Conc.
15 -0.86 48 1078.7 -0.85 4.75 -4.04 10068 324.92 320.88 16 -0.80 48 1033.7 -0.79 -3.75 10068 324.92 320.88 18 -1.15 48 103.7 -0.79 -4.42 321.17 319.25 19 -0.94 46 1028.8 -0.93 -4.42 320.09 320.09 20 -0.85 48 1027.6 -1.01 -4.86 320.09 21 -1.02 48 103.6 -1.02 -4.46 320.09 22 -1.02 48 1005.0 -0.98 -4.42 320.09 23 -0.93 -4.42 320.09 320.00 320.00 24 -0.92 46 1012.4 -0.93 -4.42 320.00 25 -0.93 -4.42 320.00 320.00 320.00 320.00 26 -1.07 44 1012.4 -1.03 -4.42		Diff.	isons	(Inches)	Diff.	Factor	D1ff.	χο.	Index		(add)
15 - 0.86 48 1028.7 - 6.85 4.75 - 4.04 10068 324.92 320.88 16 - 0.80 48 1038.7 - 0.79 - 5.32 324.92 320.88 18 - 1.12 - 8.76 - 5.32 319.22 319.22 19 - 0.94 46 1058.8 - 0.83 - 4.42 320.98 20 - 0.85 48 1058.6 - 1.01 - 4.89 320.92 21 - 1.02 48 1057.6 - 0.93 - 4.42 320.07 22 - 1.02 48 1067.6 - 0.93 - 4.42 320.07 24 - 0.97 - 0.98 - 4.42 320.07 320.07 25 - 0.92 - 4.8 1067.6 - 0.93 - 4.42 320.07 26 - 0.92 - 4.42 - 4.42 320.07 320.07 26 - 0.93 - 4.42 320.07 320.07 27 - 1.22 4 <td< td=""><td>1966</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	1966										
16 - 0.80 48 1033.7 - 0.79 - 3.75 321.17 17 - 1.15 48 138.3 - 1.12 - 5.32 319.65 18 - 0.94 46 1028.8 - 0.93 - 4.42 320.98 20 - 0.85 48 1056.8 - 0.83 - 4.80 320.12 21 - 0.02 48 1057.6 - 1.03 - 4.86 320.07 22 - 1.02 48 1065.0 - 0.98 - 4.42 320.07 24 - 0.92 48 1067.6 - 0.93 - 4.42 320.07 25 - 0.93 - 4.42 320.07 320.07 26 - 1.07 44 1067.4 - 1.08 - 5.10 27 - 1.22 48 1067.5 - 1.22 4.42 320.07 28 - 1.22 48 1067.7 - 1.22 - 5.80 319.75 29 - 1.22 48 1020.7 - 1.22 - 4.42		0.8	48	1028.7	0.8	4.75	70.7	10068	324.92	320.88	322.93
17 -1.15 48 138.3 -1.12 -5.32 119.60 18 -1.22 48 (.034.0 -1.20 -4.42 2370 319.22 19 -0.84 10.26.8 -0.93 -4.42 320.99 320.99 20 -0.85 48 10.27.6 -1.01 -4.86 320.99 320.99 21 -1.02 48 1005.0 -0.98 -4.42 320.90 320.07 22 -0.97 48 1007.6 -0.99 -4.42 320.07 320.07 24 -0.92 46 1007.4 -1.08 -4.42 320.07 320.07 25 -0.93 44 1007.4 -1.08 -4.42 320.07 320.07 26 -1.22 47 1011.2 -1.25 -5.94 319.79 319.79 28 -1.22 48 1020.7 -1.25 -5.94 319.79 29 -1.22 48 1020.7 -1.2	. ~	8.0	87	1033.7			m			321.17	323.28
18 -1.22 48 LU34.0 -1.20 -5.70 319.22 20 -0.94 46 1078.8 -0.93 -4.42 320.96 20 -0.85 48 1073.6 -1.01 -4.80 320.98 21 -1.02 48 1073.6 -1.02 -4.85 320.97 22 -1.02 48 1073.6 -1.02 -4.42 320.07 23 -0.97 46 1077.6 -0.93 -4.42 320.07 24 -0.93 -4.42 320.07 320.07 25 -0.93 -4.42 320.07 26 -1.07 -4.42 320.07 27 -1.22 -4 1077.6 -1.08 -5.13 319.79 28 -1.22 -4 1071.2 -1.22 -5.94 319.79 29 -1.22 -4 1070.6 -1.22 -5.94 319.65 29 -1.22 -4 1070.6 -	17	, ,	87	138.3			Ś			319.60	321.37
19 - 0.94 46 1028.8 - 0.93 - 4.42 320.50 20 - 0.85 48 1056.8 - 0.83 - 3.94 320.98 20 - 0.85 48 1027.6 - 0.93 - 4.86 320.07 21 - 1.02 48 1005.0 - 0.93 - 4.42 320.07 24 - 0.92 48 1007.6 - 0.93 - 4.42 320.07 25 - 0.93 - 4.42 320.07 320.07 26 - 1.07 - 4 1007.4 - 1.08 - 5.13 319.79 27 - 1.22 48 1020.7 - 1.25 - 5.94 319.79 28 - 1.22 48 1020.7 - 1.25 - 5.94 319.79 29 - 1.22 48 1020.7 - 1.25 - 5.94 319.79 30 - 1.22 48 1020.8 - 1.10 - 5.94 319.79 40 1.10 41 1020.8 - 1.11	5.	_	87	LU34.0			S			319.22	320.91
20 - 0.85 48 1056.8 - 0.83 - 3.94 320.98 21 - 1.02 48 1027.6 - 1.01 - 4.86 320.12 22 - 1.02 48 1065.0 - 0.98 - 4.46 320.12 24 - 0.93 - 4.42 320.20 320.20 25 - 0.93 - 4.42 320.50 26 - 1.07 - 4 1067.4 - 1.08 320.50 27 - 1.22 47 1011.2 - 1.22 - 5.80 319.12 28 - 1.22 48 1020.7 - 1.25 - 5.94 319.12 29 - 1.22 48 1020.7 - 1.25 - 5.94 319.12 29 - 1.22 48 1020.7 - 1.25 - 5.94 319.12 29 - 1.22 48 1020.9 - 1.25 - 5.94 319.12 29 - 1.22 48 1020.9 - 1.25 - 5.94 319.45 20	5	0	46	1028.8			4			320.50	322.47
21 -1.02 48 1027.6 -1.01 -4.85 320.12 22 -1.02 48 1013.0 -1.02 -4.85 320.07 23 -0.97 48 1005.0 -0.98 -4.42 320.50 24 -0.93 -4.42 320.50 320.50 25 -0.93 -4.42 320.50 320.50 26 -1.07 44 1007.4 -1.08 -5.13 319.79 27 -1.22 47 1011.2 -1.22 -5.80 319.79 28 -1.26 48 1020.7 -1.22 -5.80 319.79 29 -1.22 48 1020.7 -1.25 -5.20 319.79 30 -1.33 48 1020.8 -1.32 -6.27 319.65 31 -1.10 41 1010.6 -1.11 -5.27 319.65 31 -1.10 41 1022.9 -1.10 -5.65 319.74 <	20	0	87	1006.8			~			320.98	323.05
22 -1.02 48 1013.0 -1.02 -4.85 320.07 23 -0.97 48 1005.0 -0.98 -4.66 320.26 24 -0.92 46 1012.4 -0.93 -4.42 320.50 25 -0.93 -4.42 320.50 320.50 320.50 26 -1.07 46 1007.4 -1.08 -5.13 319.79 27 -1.22 48 1020.7 -1.25 -5.80 319.72 28 -1.26 48 1020.7 -1.25 -5.94 319.72 30 -1.25 48 1020.7 -1.25 -5.94 319.72 30 -1.34 48 1020.8 -1.12 -5.70 319.72 31 -1.10 41 1010.6 -1.11 -5.27 319.65 31 -1.02 46 1012.8 -1.02 -4.85 320.07 40 -1.02 46 1018.3 -1.09	21	-	87	1027.6			4			320.12	322.00
23 - 0.97 48 1005.0 - 0.98 - 4.66 320.26 24 - 0.92 48 1007.6 - 0.93 - 4.42 320.50 25 - 0.93 - 4.42 320.50 320.50 26 - 1.07 44 1007.4 - 1.08 - 5.90 319.79 27 - 1.22 48 1029.0 - 1.22 - 5.90 318.98 29 - 1.22 48 1029.0 - 1.22 - 5.70 318.98 30 - 1.33 48 1020.8 - 1.22 - 6.27 318.96 30 - 1.33 48 1020.8 - 1.12 - 6.27 318.96 31 - 1.10 41 1010.6 - 1.11 - 6.27 319.65 31 - 1.10 46 1012.8 - 1.02 - 4.85 319.74 4 - 1.02 46 1012.8 - 1.09 - 5.65 319.74 5 - 1.03 41 1025.6 - 1.19	22	-	87	1013.0			- 4.85			320.07	321.94
24 0.92 48 1067.6 - 0.93 - 4.42 320.50 25 - 0.93 - 4.42 319.79 26 - 1.07 44 1067.4 - 0.93 - 4.42 319.79 26 - 1.07 44 1067.4 - 1.08 - 5.13 319.79 27 - 1.22 48 1020.7 - 1.25 - 5.94 318.98 29 - 1.22 48 1020.7 - 1.25 - 5.94 318.98 30 - 1.33 48 1020.0 - 1.20 - 6.27 318.65 31 - 1.10 41 1010.6 - 1.11 - 6.27 319.65 31 - 1.10 46 1012.8 - 1.02 - 6.27 319.65 31 - 1.10 41 1020.6 - 1.11 - 5.65 319.74 4 - 1.19 43 1020.6 - 1.19 - 5.65 319.74 5 - 1.11 48 1005.7 - 1.17 - 5.65	23	0	87	1005.0			4			320.26	322.17
25 - 0.93 46 1012.4 - 0.93 - 4.42 320.50 26 - 1.07 44 1067.4 - 1.08 - 5.13 319.79 27 - 1.22 47 1011.2 - 1.22 - 5.94 319.12 28 - 1.26 48 1020.7 - 1.20 - 5.94 318.68 30 - 1.22 48 1020.9 - 1.20 - 5.94 318.68 30 - 1.22 48 1020.9 - 1.20 - 5.70 318.65 30 - 1.33 48 1020.8 - 1.11 - 6.27 319.65 31 - 1.10 41 1012.8 - 1.02 - 6.27 319.65 4 - 1.09 40 - 1.19 - 5.65 319.74 5 - 1.10 47 1022.9 - 1.19 - 5.65 319.36 6 - 1.16 48 1005.5 - 1.17 - 5.66 319.36 7 - 1.17 48 1005.7	57	C	87	1007.6			- 4.42			320.50	322.47
26 - 1.07 44 1007.4 - 1.08 - 5.13 319.79 27 - 1.22 47 1011.2 - 1.22 - 5.94 318.98 28 - 1.26 48 1020.7 - 1.25 - 5.94 318.98 29 - 1.22 48 1020.8 - 1.20 - 5.70 318.65 30 - 1.33 48 1020.8 - 1.32 - 6.27 318.65 31 - 1.10 41 1010.6 - 1.11 - 5.27 319.65 40 1012.8 - 1.02 - 4.85 319.74 5 - 1.09 - 5.18 319.74 6 - 1.19 43 1022.9 - 1.19 - 5.65 319.31 7 - 1.17 48 1005.5 - 1.17 - 5.56 319.36 8 - 1.18 43 1062.7 - 1.20 - 5.70 319.22 9 - 1.17 48 0996.7 - 1.17 - 5.70 319.22	25	0	97	1012.4			- 4.42			320.50	322.47
27 - 1,22 47 1011.2 - 1,25 48 319.12 28 - 1,26 48 1020.7 - 1,25 - 5,94 318.98 29 - 1,22 48 1020.8 - 1,20 - 5,70 319.12 30 - 1,33 48 1020.8 - 1,32 - 6.27 318.65 31 - 1,10 41 1010.6 - 1,11 - 5.27 319.65 40 1012.8 - 1,02 - 4.85 320.07 319.65 5 - 1,09 - 4,3 1018.3 - 1,09 - 5.18 319.74 4 - 1,19 4,3 1022.9 - 1,19 - 5.65 319.27 5 - 1,17 47 1015.7 - 1,17 - 5.56 319.36 6 - 1,17 48 1065.5 - 1,17 - 5.56 319.27 8 - 1,17 48 1062.7 - 1,20 - 5.56 319.22 9 - 1,07 43 1013.9	26	•	77	1007.4	-		Y			319.79	321.60
28 -1.26 48 1020.7 -1.25 -5.70 318.98 29 -1.22 48 1029.0 -1.20 -5.70 319.22 30 -1.22 48 1020.8 -1.32 -6.27 319.22 30 -1.33 48 1020.8 -1.11 -5.27 319.65 5 -1.10 41 1018.3 -1.02 -4.85 320.07 6 -1.10 41 1022.9 -1.19 -5.65 319.27 7 -1.17 48 1005.5 -1.17 -5.65 319.36 8 -1.17 48 1005.5 -1.17 -5.66 319.27 9 -1.18 43 1062.7 -1.19 -5.65 319.27 9 -1.16 48 1062.7 -1.19 -5.66 319.27 9 -1.17 48 0996.7 -1.19 -5.66 319.27 9 -1.18 43 1062.7 -1.20 -5.04 319.22 10 -1.22 48 1022.1	27	7	47	1011.2			2			319.12	320.78
29 - 1.22 48 1029.0 - 1.20 - 5.70 319.22 30 - 1.33 48 1020.8 - 1.32 - 6.27 318.65 31 - 1.10 41 1010.6 - 1.11 - 5.27 319.65 2 - 1.02 46 1012.8 - 1.02 - 4.85 320.07 3 - 1.09 43 1012.9 - 1.19 - 5.48 319.27 4 - 1.19 43 1020.6 - 1.18 - 5.65 319.31 5 - 1.17 48 1005.5 - 1.17 - 5.56 319.36 6 - 1.16 48 1005.5 - 1.17 - 5.56 319.27 8 - 1.17 48 0996.7 - 1.19 - 5.65 319.27 9 - 1.17 48 0996.7 - 1.19 - 5.65 319.27 9 - 1.107 43 1002.7 - 1.20 - 5.04 319.22 10 - 1.22 48 1022.1 - 1.21 - 5.04 319.22 11 - 1.24 48	28	7	87	1020.7	7		S			318.98	320.61
50 -1.33 48 1020.8 -1.32 -6.27 318.65 31 -1.10 41 1010.6 -1.11 -5.27 319.65 2 -1.02 46 1012.8 -1.09 -5.18 320.07 3 -1.09 -5.65 -5.65 319.74 4 -1.19 43 1022.9 -1.19 -5.61 319.37 5 -1.17 47 1025.7 -1.17 -5.61 319.36 5 -1.17 48 1005.5 -1.17 -5.65 319.36 6 -1.16 48 1005.5 -1.17 -5.65 319.27 8 -1.17 48 0996.7 -1.19 -5.65 319.22 9 -1.07 43 1002.7 -1.107 4.72 -5.04 319.28 10 -1.22 48 1022.1 -1.23 4.79 -5.78 319.14 11 -1.24 48 1021.2 -1.23 4.79 -5.78 319.14	29	1.2	87	1029.0	~		S			319.22	320.91
eb. 1 - 1.02	30	1.3	87	1020.8	~		9			318.65	320.21
eb. 1 -1.02 46 1012.8 -1.02 -4.85 320.07 2 -1.09 -5.18 320.07 3 -1.20 41 1022.9 -1.19 -5.65 319.74 4 -1.19 43 1020.6 -1.18 -5.61 319.31 5 -1.17 48 1005.5 -1.17 -5.56 319.36 7 -1.17 48 0996.7 -1.19 -5.56 319.27 8 -1.18 43 1002.7 -1.20 -5.65 319.22 9 -1.07 43 1013.9 -1.07 4.72 -5.04 319.88 10 -1.22 48 1022.1 -1.21 -5.70 319.22 11 -1.24 48 1021.2 -1.23 4.70 -5.78 315.24	31	1.1	4.1	1010.6	-		2			319.65	321.43
2 -1.09 43 1018.3 -1.09 -5.65 319.74 3 -1.20 41 1022.9 -1.19 -5.61 319.27 4 -1.19 43 1025.6 -1.18 -5.61 319.36 5 -1.17 48 1005.5 -1.17 -5.56 319.36 7 -1.17 48 0996.7 -1.19 -5.56 319.36 8 -1.18 43 1062.7 -1.20 -5.65 319.27 9 -1.07 4.72 -5.04 319.88 10 -1.22 48 1022.1 -1.21 -5.70 319.22 11 -1.24 48 1021.2 -1.23 4.70 -5.78 319.22	ن		97	1012.8	~		- 4.85			320.07	321.94
-1.20 41 1022.9 -1.19 -5.65 319.27 -1.19 43 1025.6 -1.18 -5.61 319.31 -1.17 47 1015.7 -1.17 -5.56 319.36 -1.16 48 1005.5 -1.17 -5.56 319.36 -1.17 48 0996.7 -1.19 -5.65 319.27 -1.18 43 1002.7 -1.20 -5.70 319.28 -1.21 48 1022.1 -1.21 -5.70 319.28 -1.24 48 1022.2 -1.23 4.70 -5.78 319.24		_	73	1018.3	_		S			319.74	321.54
-1.19 43 1020.6 -1.18 -5.61 319.31 -1.17 47 1025.7 -1.17 -5.56 319.36 -1.16 48 1005.5 -1.17 -5.56 319.36 -1.17 48 0996.7 -1.19 -5.65 319.27 -1.18 43 1002.7 -1.20 -5.70 319.88 -1.07 4.72 -5.04 319.88 -1.22 48 1022.1 -1.21 -5.70 319.22 -1.24 48 1022.2 -1.23 4.70 -5.78 319.24	'n	prod	41	1022.9			5			319.27	320.97
-1.17 47 1025.7 -1.17 -5.56 319.36 -1.16 48 1005.5 -1.17 -5.56 319.36 -1.17 48 0996.7 -1.19 -5.65 319.27 -1.18 43 1062.7 -1.20 -5.70 319.22 -1.07 43 1013.9 -1.07 4.72 -5.04 319.88 -1.22 48 1022.1 -1.21 -5.70 319.22 -1.24 48 1023.2 -1.23 4.70 -5.78 319.24	7		73	1023.6			5			319.31	321.02
-1.16 48 1005.5 -1.17 -5.56 319.36 -1.17 48 0996.7 -1.19 -5.65 319.27 -1.18 43 1062.7 -1.20 -5.70 319.22 -1.07 43 1013.9 -1.07 4.72 -5.04 319.88 -1.22 48 1022.1 -1.21 -5.70 319.22 -1.24 48 1023.2 -1.23 4.70 -5.78 319.24	· Lo	-	47	1015.7	_		S			319.36	321.08
- 1.17 48 0996.7 - 1.19 - 5.65 319.27 - 1.18 43 1062.7 - 1.20 - 5.70 319.22 - 1.07 43 1013.9 - 1.07 4.71 - 5.04 319.88 - 1.22 48 1022.1 - 1.21 - 5.70 319.22 - 1.24 48 1023.2 - 1.23 4.70 - 5.78	•	-	87	1005.5	~		S			319.36	3,1.08
- 1.18		-	87	0996.7	~		U)			319.27	32C.07
- 1.07 43 1013.9 - 1.07 4.72 - 5.04 319.88 - 1.22 48 1022.1 - 1.21 - 5.70 319.22 - 1.24 48 1022.2 - 1.23 4.70 - 5.78	· œ	_	43	1062.7						319.22	320.71
- 1.22 48 1022.1 - 1.21 - 5.70 319.22 320 - 1.24 48 1023.2 - 1.23 4.79 - 5.78 319.14 320	6		43	1013.9	_	4.7.				319.88	121.71
- 1.24 48 1023.2 - 1.23 4.79 - 5.78	10	-	48	1022.1	, 					319.22	•
	11	1.2	48	1023.2	٠.	4.79				319.14	320.81

TABLE 7a: INDICEC OF ATA THE CONTINUOUS ANALYZER BARROW, ALASE. CLE IN DIOXIDE PROJECT

Co1: 1	2	n	اً دن	5	9	 - 	æ	6	10	11
Day of	Observed	No. of	Beromerte	Adjusted	Recorder	Computed	Reference	ce Tank	Afr	Manometric
Month	Scale Diff.	Corpre-	Fresaure (inches)	Scale Dif	Scale	Index 51(f.	No.	Index	index	Conc. (ops)
1966		-								
Feb. 12	- 1.26	97	1028.6	- 1.24	4,69	- 5.82	10068	324.92	319.10	320.76
	- 1.28	87		- 1.26		- 5.91			319.01	320.65
14		87	1015.7	- 1.38	4.68	94.9 -			318.46	319.98
1.5	•	43		- 1.33	4.67	- 6.21			3).8.71	320.28
16		84		- 1.23	4.65	96.5 -			318.96	320.59
1.7		32		- 1.28		•			318.96	
1.7	- 1.53	ניו		- 1.57		- 7.32	4274	326.65	319.33	
							February 17	7 Average	319.08	320.73
18	- 1.64	87	1032.8	7.61	4.65	- 7.49			319.16	320.83
ري. پيمر	- 1,52	84	1033.4	37.40	79.7	15.9 -			319.74	321.54
20	4	83		- 1,45		- 6.73			319.92	321.76
21	- i.51	27	3033.0	- 1.48	4,63	- 6.85			319.80	321.61
22	- 1.54	ος •3	1011.2	- 1.55	4.62	- 7.16			319.49	321.23
23		97 9		- 1.55		- 7.39			319.26	320.95
77	- 1.58	147		- 1.61	4.61	- 7.42			319.23	320.92
25	٠	87	0.9660	- 1.65	4.60	- 7.59			319.06	320.71
26	- 1.54	46	1300.6	- 1.56	4.59	- 7.16			319.49	321.23
77	- 1.65	45	1017.5	- 1.65		- 7.57			319.08	320.73
28	- 3.69	45		- 1.65	4.58	- 7.56			319.09	320.75
Mar. 1	- 1.69	8.4	1040.1	- 1.65	4.57	- 7.54			319.11	320.77
	- 1.68	80,7	1036.7	- 1.64		64.6 -			319.16	320.83
m	- 1.68	87	1032.0	- 1.65	4.56	- 7.52			319.13	320.80
7	- 1.58	47	1027.1	- 1.56	4.55	- 7.10			319.55	321.31
5	- 1.51	48		~ 1.50		- 6,83			319.82	321.64
9	•	87		- 1.60	75. 7	- 7.26			319.39	321.11
7	- 1.48	87		- 1.45	4.5]	- 6.57			320.08	321.95
8	- 1.45	77		- 1.43	4.52	97.9 -			320.19	322.09
9	- 1.50	38		- 1.48		69.9 -			319.96	321.81

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

Co1: 1	2	3	4	2	9	7	8	6	10	11
Day of	Observed	No. of	Barometric	Adjusted	Recorder	Computed	Keference	ce Tank	Air	Manometric
	Scale	Compar-	Pressure	Scale	Scale	Index			Index	Conc.
	D1££.	1sons	(Inches)	Diff.	Factor	Diff.	Ko.	Index		(ਜ਼dd)
10	- 1.49	48	1028.5	- 1.47	4.52	- 6.64	4274	326.65	320,01	321.0
11	9	47	1024.7	- 1.59		- 7.19			319.46	321.20
12	- 1.51	87	1011.9	- 1.51		- 5.83			319.82	321.64
13	-	48	1014.4	- 1.42		- 6.42			520,23	322.14
7.		87	1017.6	- 1.44		- 6.51			320.14	322.03
15		87	1023.1	- 1.55		- 7.01			319.6%	321.42
16	- 1.50	84	1031.7	- 1.48		69.9 -			319.96	321.81
11	- 1.54	84	1027.6	- 1.52		- 6.87			319.78	321.59
18	- 1.56	47	1029.2	- 1.54		96.9 -			319.69	321.48
19	- 1.58	84	1031.2	- 1.56		- 7.05			319.50	321.37
20	- 1.57	84	1031.0	- 1.55		- 7.01			319,64	321.42
21	- 1.55	87	1028.3	- 1.53		- 6.92			319.73	321.53
22	- 1.52	87	1029.0	- 1.50		- 6.78			339.87	321.70
23	- 1.39	87	1021.8	- 1.38		72.9 -			320.41	322.36
24	- 1.39	37	1020.4	- 1.38		- 6.24			320.41	322.36
25	- 1.38	28	1015.2	- 1.38	4.51	- 6.22			320.43	
25	+ 0.05	15	1012.7	+ 0.05		+ 0.23	10067	326.83	327.06	
						424	March 25 Average	ageray	320.65	322.65
26	- 0.08	87	1013.5	- 0.08	4.50	- 0.36			320.47	322.43
23	- 0.12	84	1017.1	- 0.12	67.7	- 0.54			320.29	322.21
23	- 0.16	84	1012.3	- 0.16	4.47	- 0.72			320.11	321.99
29	- 0.14	37	1005.5	- 0.14	4.46	- 0.62			320.21	
59	0.00	10	1005.0	0.00		0.00	10063	319.93	319.93	
							March 29 A	Average	320.15	322.04
30	+ 0.01	48	1008.3	+ 0.01	4.45	+ 0.8			319.97	321.82
31	- 0.02	84	1013.9	- 0.02	77.7	- 0.09			319.84	321.66
<u>,</u>	- 0.01	45	1013.2	- 0.01	4.42	- 0.04			319.89	321.72
~	- 0.01	77	1014.9	- 0.01	4.41	- 0.04			319.89	
7	- 0.05	9	1016.0	- 0.05		- 0.22	10067	320.83	320.61	
						•	April 2 Av	Average	319.98	321.83

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

0 11	Ex Conc.	(add)			322.																					322.	322.		322.	32	_	
9 10	Tank Air Index	ndex		320.83 320.35	320.26	320.22	320.13	320.05	320.01	319.97	320.92	320.27	320.23	320.45	319.98	320.83	320.41	319.99	319.99	320.33	320.08	319.96	319.96	320.75	320.79	320.46	320.67	320.75	320.59	320.67	320.7	11 000
8	erence	NO.		10067 3																												
7	Computed Index	Diff.		- 0.48	- 0.57	- 0.61	- 0.70	- 0.78	- 0.82	- 0.86	60°0 +	- 0.55	09.0 -	- 0.38	- 0.85	0.00	- 0.42	- 0.84	- 0.84	- 0.50	- 0.75	- 0.87	- 0.87	+ 0.08	+ 0.04	- 0.37	- 0.16	- 0.08	- 0.24	-0.16	- 0.12	
9	Recorder	Factor		4.40	4.38	4.37	4.36	4.34	4.33	4.32	4.31	4.29	4.28	4.27	4.25	4.24	4.23	4.21	4.20	4.19	4.18	4.16	4.15	4.14	4.12	4.11	4.10	4.08	4.07	90.4	4.05	
5	Adjusted Scale	Diff.		- 0.11	- 0.13	- 0.14	- 0.16	- 0.18	- 0.19	- 0.20	÷ 0.02	- 0.13	- 0.14	- 0.09	- 0.20	0.0	- 0.10	- 0.20	- 0.20	- 0.12	- 0.18	- 0.21	- 0.21	+ 0.02	+ 0.01	- 0.09	- 0.04	- 0.02	- 0.06	- 0.04	- 0.03	4
7	Barometric Pressure	(inches)		1018.3	1023.7	1035.8	1042.3	1047.3	1048.8	1036.2	1024.1	1030.7	1042.0	1032.1	1030.7	1038.9	1037.0	1033.2	1029.0	1022.7	1016.6	1017.1	101.9.0	1023.5	1031.5	1037.4	1034.0	1025.0	1024.3	1023.4	1023.4	1 1 1
3	No. of Compar-	Isons		84	47	87	48	48	87	48	87	84	48	84	27	21	87	87	48	48	87	48	42	77	87	87	93	87	87	77	41	
2	Observed Scale	niff.		- 0.11	- 0.13	- 0.14		- 0.19	- 0.20			- 0.13	- 0.14	- 0.09	- 0.20	0.00	- 0.10	- 0.20	•	•	- 0.18	- 0.21	- 0.21	+ 0.02	+ 0.01	- 0.09	- 0.04	- 0.02		- 0.04	- 0.03	,
Co1: 1	Day of Month		1966	Apr. 3		5	9	7	80	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

Co1: 1	2	9	4	٧.	9	7	80	6	10	11
Day of	0)served	No. of	Barometric	Adjusted	Recorder	Computed	Reference	ce Tank	Afr	Manometric
Month	Scale Diff.	Compar- 1sons	Pressure (inches)	Scale Diff.	Scale	Index Diff.	No.	Index	Index	Conc. (ppm)
1966										
May 2	0.00	4 5	1009.7	00.0		0.00	10067	320.83	320.83	322.87
en '	0.00	87	3.002,8	0.00	3.98	0.00			320.83	322.87
4	0.00	9	1.003.3	0.00		0.00			320.83	
V	1.90	23	3.005.3	1.92		7.62	10075	311.68	319.30	
							May 4 Average	erage	319.62	321.39
ς,	1.88	13	1013.8	1.88	3.95	7.43			319.11	320.77
9	•	48	1013.1	1.91	3.94	7.53			319.21	320.89
7	•	15	1008.2	2.20	3.91	8.60			320.28	322.20
&	•	147	1012.8	2.28		8.91			320.59	322.57
6	2.28	33	1015.3	2.28		8.91			320.59	322.57
01	•	87	1018.1	2.28		8.91			320.59	322.57
11	2.29	84	1019.9	2.28		8.71			320.59	322.57
12		84	1014.8	2.25		8.80			320.48	322.44
E1		87	1003.6	2.26		8.84			320.52	322.49
14	•	87	1010.5	2.22		8.68			320,36	322.29
15	•	25	1016.7	2.15		8.41			320.09	321.97
91	•	14	1017.0	2.06		8.05			319.73	321.53
17	•	36	1015.3	2.24		8.76			320.44	
17	1.27	11	1012.0	1.27		4.97	10073	315.29	320.26	
							May 17 Average	verage	320.40	322.34
18	1.34	848	1009.3	1.35		5.28			320.57	322.55
19	•	84	1007.3	1.49		5.83			321.12	323.22
20	1.53	94	1009.8	1.54		6.02			321.31	323.45
21	•	87	1010.7	1.57		6.14			321.43	323.60
22	•	2 0	1015.7	1.54		6.02			321.31	323.45
23	1.54	48	1016.2	1.54		6.02			321.31	323.45
54	•	39	1012.5	1.54		6.02			321.31	323.45
25	1.44	87	1009.8	1.45		5.67			320.96	323.03
56	4	87	1012.8	1.43		5.59			320.88	322.93

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

Day of Scale Observed Scale No. of Scale Barometric Scale Adjusted Scale Recorded Scale Honth Scale Compar- Isons (Inches) Diff. Factor 1966 May 27 1.46 48 1022.0 1.45 3.91 28 1.48 48 1023.2 1.54 1.47 3.91 30 1.62 48 1024.2 1.54 1.47 1.47 June 1 1.55 48 1024.2 1.51 1.47 1.45 June 1 1.55 48 1024.2 1.54 1.47 1.47 1.47 1.47 1.47 1.47 1.47 1.47 1.46 4 1.46 4 1.46 4 1.47 1.47 1.47 1.46 4 1.47 1.46 4 1.46 4 1.47 1.47 1.46 4 1.47 1.46 4 1.47 1.46 4 1.46 4 1.46 4 1.46 4 1.46	2	3	7	5	9	7	8	6	10	11
27 1.46 48 1022.0 1.45 28 1.48 48 1023.4 1.47 29 1.55 48 1023.2 1.54 30 1.62 48 1024.8 1.61 30 1.62 48 1024.2 1.54 1 1.52 48 1024.2 1.51 2 1.53 48 1024.0 1.52 3 1.53 48 1024.0 1.52 4 1.43 33 1022.0 1.46 9 1.46 42 10124.0 1.52 10 1.48 47 1022.5 1.46 9 1.46 48 1007.2 1.46 9 1.46 48 1007.3 1.40 10 1.38 47 1001.5 1.40 11 1.26 19 1004.8 1.20 11 1.28 20 1006.8 1.20 <	Observed Scale Diff.	No. of Compar- isons	Barometric Pressure (inches)	Adjusted Scale Diff.	Recorder Scale Factor	Computed Index Diff.	Reference No.	ce Tank Index	Air Index	Manometric Conc. (ppm)
27 1.46 48 1022.0 1.45 28 1.48 48 1023.4 1.47 29 1.55 48 1023.2 1.54 30 1.62 48 1024.2 1.51 31 1.74 48 1024.2 1.52 2 1.52 27 1019.5 1.52 3 1.53 48 1024.0 1.45 4 1.46 48 1025.0 1.45 5 1.46 48 1025.0 1.45 6 1.46 42 1016.4 1.45 9 1.46 48 1007.3 1.46 10 1.26 19 1007.3 1.26 11 1.26 19 1007.3 1.26 15 1.26 19 1007.3 1.26 15 1.28 20 1006.8 1.23 16 1.28 20 1006.8 1.23 <										
28 1.48 48 1023.4 1.47 29 1.55 48 1024.8 1.61 30 1.62 48 1024.2 1.54 31 1.74 48 1024.2 1.54 2 1.52 27 1019.5 1.51 3 1.53 48 1024.0 1.52 4 1.43 33 1023.0 1.45 6 1.46 8 1025.0 1.45 9 1.46 42 1016.4 1.46 9 1.46 48 1007.3 1.47 10 1.38 47 1001.5 1.40 14 1.26 19 1014.8 1.26 15 1.36 48 1017.4 1.35 16 1.34 48 1017.4 1.35 16 1.28 20 1018.0 1.23 20 1.106.8 1.21 21 1.30 48 1004.5 1.21 22 1.09 48 1004.0 1.09 24 0.91 19 0.93 1.48 25 1.94 45 1006.0 1.60 26	1.46	87	1022.0	1,45	3,93	2.67	1001	315,29	30 06	171 03
29 1.55 48 1024.8 30 1.62 48 1024.8 31 1.74 48 1025.8 2 1.52 27 1019.5 3 1.53 48 1024.0 4 1.43 33 1023.0 6 1.46 42 1025.0 7 1.48 47 1025.0 8 1.46 48 1007.3 9 1.46 48 1007.3 10 1.38 47 1001.5 14 1.26 19 1016.4 15 1.35 48 1017.4 16 1.34 48 1014.5 20 1.06.8 1014.5 21 1.28 20 1014.5 22 0.99 48 1007.2 23 1.08 48 1007.2 24 0.91 19 0997.4 25 1.94 45 1006.6 26 1.66 48 1006.6 2	1.48	87	1023.4	1.47		5.75) ; ;		32.04	323.13
30 1.62 48 1024.8 31 1.74 48 1025.8 2 1.52 27 1019.5 3 1.53 48 1024.0 4 1.43 33 1025.0 6 1.46 8 1025.0 7 1.48 47 1022.5 8 1.46 42 1016.4 9 1.46 48 1007.3 10 1.38 47 1001.5 14 1.26 19 1014.8 15 1.35 48 1017.4 16 1.34 48 1014.5 20 1.21 48 1004.0 21 1.30 48 1004.5 22 0.99 48 1007.2 23 1.08 48 1004.0 24 0.91 19 0997.4 25 1.94 45 1006.6 26 1.60 48 1006.6 27 1.78 48 1006.6 28 1.48 48 1006.6	•	8,	1023.2	1.54		6.02			331.31	173 45
31 1.74 48 1025.8 2 1.52 27 1019.5 3 1.53 48 1024.0 4 1.43 33 1025.0 6 1.46 8 1025.0 7 1.48 47 1022.5 8 1.46 42 1016.4 9 1.46 48 1007.3 10 1.38 47 1001.5 14 1.26 19 1014.8 15 1.34 48 1017.4 16 1.34 48 1014.5 20 1.018.0 20 1018.0 21 1.23 20 1018.0 22 0.99 48 1004.5 23 1.08 48 1004.0 24 0.91 19 0997.4 25 1.94 45 1006.5 26 1.66 48 1006.6 27 1.78 48 1006.6 27 1.78 48 1006.6	•	87	1024.8	1.61		6.30			321,59	323.70
1 1.55 48 1024.2 2 1.52 27 1019.5 3 1.53 48 1024.0 6 1.46 47 1025.0 7 1.48 47 1025.0 9 1.46 42 1016.4 10 1.38 47 1001.5 14 1.26 19 1014.8 15 1.35 48 1017.4 16 1.34 48 1014.5 17 1.28 20 1018.0 20 1.18.0 48 1004.0 21 1.30 48 1007.2 22 0.99 48 1004.0 24 0.91 19 0997.4 25 1.94 45 1008.0 26 1.60 48 1006.5 27 1.78 48 1006.6 28 1.48 48 1006.0	•	84	1025.8	1.72		6.73			322.02	324.32
2 1.52 27 1019.5 3 1.53 48 1024.0 6 1.46 8 1025.0 7 1.48 47 1022.5 8 1.46 42 1016.4 9 1.46 48 1007.3 10 1.38 47 1001.5 14 1.26 19 1014.8 15 1.35 48 1017.4 16 1.23 20 1018.0 10 1.23 20 1018.0 10 1.21 48 1004.5 11 1.30 48 1007.2 12 0.99 48 1004.0 4 0.91 19 0997.4 5 1.94 45 1006.5 6 1.60 48 1006.6 7 1.78 48 1006.6 7 1.78 48 1006.6 8 1.48 1006.6	1.55	87	1024.2	1.54		6.02			321.31	37.85
3 1.53 48 1024.0 6 1.46 8 1025.0 7 1.48 47 1022.5 8 1.46 42 1016.4 9 1.46 48 1007.3 10 1.38 47 1001.5 14 1.26 19 1014.8 15 1.35 48 1017.4 16 1.34 48 1018.0 10 1.28 20 1018.0 10 1.21 48 1006.8 10 1.30 48 1007.2 11 1.30 48 1004.0 10 1.94 45 1004.0 10 4 0.91 19 10 48 1006.5 10 48 1006.5 10 48 1006.5 10 48 1006.5 10 48 1006.5 10 48 1006.6 10 48 1006.6 10 48 1006.6 10 48 1006.6 10 48 1006.6 10 49 106.6 10 48 <	1.52	27	1019.5	1.51		5.90			321.19	323.31
4 1.43 33 1023.0 6 1.46 8 1025.0 7 1.48 47 1022.5 8 1.46 42 1016.4 9 1.46 48 1007.3 10 1.38 47 1001.5 14 1.26 19 1014.8 15 1.34 48 1017.4 16 1.28 20 1006.8 10 1.21 48 1004.5 10 1.21 48 1004.5 11 1.30 48 1004.0 12 0.99 48 1004.0 13 1.94 45 1004.5 14 1.56 48 1006.6 15 1.94 45 1006.5 16 1.60 48 1006.6 16 1.78 47 1006.6 17 1.78 48 1006.6 11 48 1006.6 11 48 1006.6 11 48 1006.6 11 48 1006.6 11 48 1006.6 11 48 1006.6 11 48	1.53	87	1024.0	1.52		5.94			321.23	323.35
6 1.46 8 1025.0 7 1.48 47 1022.5 8 1.46 42 1016.4 9 1.46 48 1007.3 10 1.38 47 1001.5 14 1.26 19 1014.8 15 1.35 48 1017.4 16 1.34 48 1017.4 17 1.28 20 1018.0 10 1.21 48 1004.5 10 1.21 48 1004.5 10 0.99 48 1007.2 10 0.91 19 0997.4 10 0.91 19 0997.4	1.43	33	1023.0	1.42		5.55			320.84	322.88
7 1.48 47 1022.5 8 1.46 42 1016.4 9 1.46 48 1007.3 10 1.38 47 1001.5 14 1.26 19 1014.8 15 1.35 48 1017.4 16 1.34 48 1012.2 1 1.28 20 1006.8 1 1.21 48 1004.0 1 1.21 48 1004.0 1 1.21 48 1007.2 2 0.99 48 1007.2 3 1.08 48 1007.2 4 0.91 19 0997.4 5 1.94 45 1004.0 6 1.60 48 1006.6 7 1.78 47 1006.6	1.46	œ	1025.0	1.45		5.67			320.96	323.03
8 1.46 42 1016.4 9 1.46 48 1007.3 10 1.38 47 1001.5 14 1.26 19 1014.8 15 1.34 48 1017.4 16 1.28 20 1006.8 10 1.23 20 1018.0 10 1.21 48 1006.0 11 1.30 48 1007.2 12 0.99 48 1004.0 14 45 1004.0 15 45 1004.5 16 48 1006.5 16 48 1006.5 17 48 1006.6 17 48 1006.5 16 48 1006.6 17 48 1006.5 17 48 1006.6 17 48 1006.6 17 48 1006.6 17 48 1006.6 10 48 1006.6 10 48 1006.6 10 48 1006.6 10 48 1006.6 10 10 10 10 10 10 <td>1.48</td> <td>47</td> <td>1022.5</td> <td>1.47</td> <td></td> <td>5.75</td> <td></td> <td></td> <td>321.04</td> <td>323.12</td>	1.48	47	1022.5	1.47		5.75			321.04	323.12
9 1.46 48 1007.3 10 1.38 47 1001.5 14 1.26 19 1014.8 15 1.35 48 1017.4 1 1.28 20 1006.8 1 1.23 20 1018.0 1 1.21 48 1014.5 1 1.20 48 1006.0 1 1.08 48 1007.2 1 1.08 48 1007.2 1 1.06 48 1007.2 1 1.06 48 1007.2 1 1.07 4 45 1004.5 1 1.48 48 1006.6	1.46	77	1016.4	1.46		5.71			321.00	323.07
1.38 47 1001.5 1.26 19 1014.8 1.35 48 1017.4 1.6 1.34 48 1012.2 1.28 20 1006.8 1.0 1.21 48 1014.5 1.1 1.30 48 1006.0 1.2 0.99 48 1006.0 1.2 0.91 19 0997.4 1.2 0.91 19 0997.4 1.3 1.60 48 1006.6 1.48 48 1006.6	•	48	1007.3	1.47		5.75			321.04	323.12
1,26 19 1014.8 1,35 48 1017.4 16 1,34 48 1012.2 1,28 20 1006.8 1 20 1,23 20 1018.0 10 1,21 48 1014.5 1 11 1,30 48 1006.0 1 12 0,99 48 1007.2 1 13 1,94 45 1004.5 1 4 0,91 1,9 48 1008.0 1 5 1,50 48 1008.0 1 7 1,78 47 1006.6 1 8 1,48 48 0998.7 1	1.38	47	1001.5	1.40		5.47			320.76	322.78
1.35 48 1017.4 1 16 1.34 48 1012.2 1.28 20 1006.8 1 1.21 48 1014.5 1 1.30 48 1006.0 1 1.21 0.99 48 1006.0 1 1.08 48 1007.2 1 1.08 48 1004.0 1 1.09 48 1004.0 1 1.09 48 1004.0 1 1.09 48 1004.0 1 1.09 48 1004.0 1 1.09 48 1006.0 1 1.09 48 1008.0 1 1.09 48 1008.0 1 1.09 48 1008.0 1 1.09 48 1008.0 1 1.09 48 1008.0 1 1.00 1.00 1	1.26	19	1014.8	1.26		4.93			320.22	322.12
1.34 48 1012.2 7 1.28 20 1006.8 1.23 20 1018.0 10 1.21 48 1014.5 11 1.30 48 1006.0 2 0.99 48 1007.2 3 1.08 48 1007.2 4 0.91 19 0997.4 5 1.94 45 1004.5 6 1.60 48 1008.0 7 1.78 47 1006.6 8 1.48 48 0998.7	1.35	87	1017.4	1.35		5.28			320.57	322.55
.7 1.28 20 1006.8 1 .9 1.23 20 1018.0 1 10 1.21 48 1014.5 1 11 1.30 48 1006.0 1 12 0.99 48 1007.2 1 13 1.08 48 1004.0 1 4 0.91 19 0997.4 0 5 1.94 45 1004.5 1 6 1.60 48 1008.0 1 7 1.78 47 1006.6 1 8 1.48 48 0998.7 1	1.34	87	1012.2	1.34		5.24			320.53	322,50
1.23 20 1018.0 10 1.21 48 1014.5 11 1.30 48 1006.0 2 0.99 48 1007.2 3 1.08 48 1004.0 4 0.91 19 0997.4 5 1.94 45 1004.5 6 1.60 48 1008.0 7 1.78 47 1006.6 8 1.48 48 0998.7	1.28	20	1006.8	1.29		5.04			320.33	322.26
1.21 48 1014.5 11 1.30 48 1006.0 22 0.99 48 1007.2 3 1.08 48 1004.0 4 0.91 19 0997.4 5 1.94 45 1004.5 6 1.60 48 1008.0 7 1.78 47 1006.6 8 1.48 48 0998.7	1.23	20	1018.0	1.23		4.81			320.10	321.98
1.30 48 1006.0 1.2 0.99 48 1007.2 3 1.08 48 1004.0 4 0.91 19 0997.4 5 1.94 45 1004.5 6 1.60 48 1008.0 7 1.78 47 1006.6 8 1.48 48 0998.7	1.21	84	1014.5	1.21		4.73			320.02	321.88
2 0.99 48 1007.2 3 1.08 48 1004.0 4 0.91 19 0997.4 5 1.94 45 1004.5 6 1.60 48 1008.0 7 1.78 47 1006.6 8 1.48 48 0998.7	1.30	84	1006.0	1.31		5.12			320.61	322.36
3 1.08 48 1004.0 4 0.91 19 0997.4 5 1.94 45 1004.5 6 1.60 48 1008.0 7 1.78 47 1006.6 8 1.48 48 0998.7	0.99	84	1007.2	1.00		3.91			319,20	320.88
4 0.91 19 0997.4 5 1.94 45 1004.5 6 1.60 48 1008.0 7 1.78 47 1006.6 8 1.48 48 0998.7	1.08	87	1004.0	1.09		4.26			319,55	321.31
5 1.94 45 1004.5 6 1.60 48 1008.0 7 1.78 47 1006.6 8 1.48 48 0998.7	0.91	19	7.7660	0.93		3.64			318.93	320.55
6 1.60 48 1008.0 7 1.78 47 1006.6 8 1.48 48 0998.7	1.94	45	1004.5	1.96		7.66	11097	312.48	320.14	322.03
7 1.78 47 1006.6 8 1.48 48 0998.7	1.60	87	1008.0	1.61		6.30			318.78	320.37
8 1.48 48 0998.7 1	۲.	47	1006.6	1.80		7.04			319.52	321.27
	1.48	8,7	0998.7	1.51		5.90			318.38	319.88

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

2		7	5	9	7	88	I	10	Mangageric
No. of Compar 1sons	or ar-	Berometric Fressure (inches)	Adjusted Scale Diff.	Recorder Scale Pactor	Computed Index Diff.	No.	re tank	Index	Conc.
73		1003.3	1.64	3.91	6.41	11097	312.48	318.89	320.50
22		1016.0	1.33		5.20			317.68	319.03
27		1014.7	1.31		5.12			317.66	318.93
38		1012.7	1.58		6.18			318.66	320.22
48		1016.3	1.60		6.26			318.74	320.32
87		1015.6	1.50		5.87			318.35	319.85
87		1011.4	1.58		6.18			318.66	320.22
87		1012.9	1.53		5.98			318.46	319.98
48		1011.5	1.22		4.77			317.25	318.50
48		1005.7	•		3.44			315.92	316.88
46		1001.0	0.56		2.19			314.67	315.36
48		1008.8	1.02		3.99			316.47	317.55
48		1005.9	0.52		2.03			314.51	315.17
48		1007.4	87.0		1.88			314.36	314.98
48		1004.2	0.38		1.49			313.97	314.51
48		1011.9	C.28		1.09			313.57	314.02
45			- 0.10	•	- 0.39			312.09	312.22
77		1005.5	0.02		0.08			312.56	312.79
47		1008.8	0.25		0.98			313.46	313.89
47		1017.8	0.56		2.19			314.67	315.36
47		1017.6	0.29		1.73			313.61	314.07
4,8		1013.9	0.05		0.20			312.68	312.94
87		1014.0	- 0.37	•	- 1.45			311.03	310.93
47		1019.7	0.46		1.80			314.28	314.89
23		1022.5	0.37		1.45			313.93	314.46
87		1025.9	0.25		0.98			313.46	313.89
48		1027.9	0.42		1.6			314.12	314.69
47		1029.2	0.44		1.72			314.20	314.79
87		1025.6	0.48		1.88			314.36	314.98

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric	(bbm)		314.93	314.02	313.41	310.93	312.31	312.64	312.45	312.02	311.45	311.64	311.89	312.22	311.52	311.72	311.21	311.10	311.19	311.24	310.05	310.47	310,15	316.15	310.24	310.82	311.49	310.91	311.00	310.82	310.96
10	Afr	Z DE L		314.32	313.57	313.07	311.03	312.17	312.44	312.28	311.93	311.46	311.62	311.82	312.09	311.52	311.68	311.26	311.17	311.25	311.29	310.31	310.66	310.39	310.39	310.47	310.94	311.49	311.02	311.09	310.94	311.06
6	ce Tank	Index		312.48												312.58																
œ	Reference	<u>.</u>		11097												10066																
7	Commuted	olff.		1.84	1.09	0.59	- 1.45	- 0.31	40.04	- 0.20	- 0.55	- 1.02	- 0.86	- 0.66	- 0.39	- 1.06	- 0.90	- 1.32	- 1.41	- 1.33	- 1.29	- 2.27	- 1.92	- 2.19	- 2.19	- 2.11	- 1.64	- 1.09	- 1.56	- 1.49	- 1.64	- 1.52
ó	Recorder	Scale		3.91							·			·																		
5	Adjusted	Scale Diff.		0.47	0.28	0.15	- 0.37	- 0.08	- 0.01	- 0.05	- 0.14	- 0.26	- 0.22	- 0.17	- 0.10	- 0.27	- 0.23	- 0.34	- 0.36	- 0.34	- 0.33	- 0.58	67.0 -	- 0.56	- 0.56	- 0.54	- 0.42	- 0.28	- 0.40	- 0.38	- 0.42	- 0.39
4	Barometric	Pressure (inches)		1013.3	1004.0	1008,5	1004.5	1000.5	1008.1	1009.9	1014.5	1021.0	1021.6	1021.2	1021.1	1023.7	1024.9	1023.8	1020.8	1015.9	1015.1	1006.4	1005.5	1016.8	1019.0	1013.5	1010.8	1007.2	1003.4	1006.4	1014.0	1017.8
3	No. of	Compar- isons		848	47	42	48	45	87	78	48	84	47	87	20	37	47	47	87	87	87	% 8	87	48	87	47	47	87	87	48	87	48
2	Observed	Scale Diff.		0.47		0.15	- 0.37	- 0.08			- 0,14	- 0.26	•		- 0.10	- 0.27		- 0,34	- 0.36		- 0.33		67.0 -	. 0.56					•	- 0.38	•	- 0.39
Co1: 1	Day of	Month	1966	July 28		30	31	Aug. 1		m	4	· •^	• •	_	€	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	2.5

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric Conc. (ppm)	312.14 311.24 310.00 310.05 310.05 310.24	310.24 309.95 309.95 310.96 310.29 310.29 313.19 311.34 311.57 311.57 313.53
10	Afr Index	312.03 311.29 310.27 310.31 310.47	310.47 310.23 310.23 311.66 311.66 311.65 311.65 312.89 313.44 311.37 311.37 311.37
6	ce Tank Index	312.58	
80	Reference No.	10066	
7	Computed Index Diff.	- 0.55 - 1.29 - 2.31 - 2.27 - 2.15 - 2.15	
9	Recorder Scale Factor	3.91	
5	Adjusted Scale Diff.	- 0.14 - 0.33 - 0.59 - 0.58 - 0.55	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4	Barometric Pressure (inches)	1013.6 1008.5 1006.0 1008.3 1012.8	1028.1 1027.4 1022.1 1015.8 1012.1 1013.9 1018.8 1009.7 1015.7 1006.4 1006.2 0995.3 0995.3 0995.3
3	No. of Compar- isons	45 48 47 37	C 8 8 C 8 C C C C 8 C 8 C 8 C C C C C C
2	Observed Scale Diff.		0.55 0.32 0.32 0.32 0.32 0.33 0.03 0.03 0.03
Co1: 1	Day of Month	1966 Aug. 26 27 28 29 30 31	Sept. 1 2 3 3 4 10 11 12 13 14 16 17 19 20

TABLE 7a: INDICES OF AIR WITH CONTINDOUS ANALTZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric	(ppe.		313.48	313.19	312.96	213.09	512.31	12.47	318.58	320.17	314.48	313.39	314.39	315.35			316.08	315.42	316.31	315.40	313.69	315.18	316.48	316.26	315.13	317.41	318.21	317.58	316.23	316.94	317.20	316.23
	Man			m	m	m	c.	.1	m	m	m	, co	m	m	m			m	m	'n	m	m	m	3	m	m	'n	m	m	m	m	m	(m)
10	Air	Index		313.13	312.89	312.70	312.31	312.17	312.30	317.31	318.62	313.95	313.05	313.87	314.66	315.45	314.98	315.26	314.72	315.45	314.70	313.30	314.52	315.59	315.41	314.48	316.35	317.01	316.49	315.38	315.97	316.18	315.38
0	ce Tank	Index		312.58				309.65									313.65	Average	i														
80	Reference	No.		10066				11111									0909	October 5 ,															
7	Computed	Index Diff.		0.55	0.31	0.12	0.23	2.52	2.65	7.66	8.97	4.30	3.40	4.22	5.01	5.80	1.33	ŏ	1.07	1.80	1.05	- 0,35	0.87	76.1	1.76	0.83	2.70	3.36	2.84	1.73	ż. 32	2.53	1.73
9	Recorder	Scale		3.91				3.88	3.84	3.81	3.77	3.74	3.70	3.67	3.63	3.60			3.56	3.53	3.49	.46											
5	Adjusted	Scale Diff.		0.14	0.08	0.03	0.06	0.65	0.69	2.01	2.38	1.15	0.92	1.15	1.38	1.61	0.37		0.30	0.51	0.30		0.25	0.56	0.51	0.24	9.78	0.97	0.82	05.0	0.67	0.73	05.0
4	Barometric	Pressure (.nches)		1023.4	1022.8	1014.3	1009.3	1003.2	1002.7	1006.4	1010.6	1012.7	1008.7	1003.3	1000.2	0.6660	6.5660		0994.1	0993.2	8,6660	1006.4 -	1017.1	1018.9	1014.3	1011.0	1008.7	1003.7	1004.5	1011.2	1013.0	1618.2	10,77,7
3	No. of	Compar- 1sons		47	77	47	19	17	97	97	97	87	87	97	87	27	19		43	43	47	46	24	41	43	8,7	47	21	87	38	42	77	97
2	Observed	Scale Diff.		0.14	0.08	0.03	90.0	0.64	0.68	1.99	2.37	1.15	•			1.58	0.36		0.29	•	•	•	•	•		0.24		•	0.81		•	0.73	
Co1: 1	Day of	Month	1966	Sept.23		25	26	27	28	29	30	Oct. 1		. m	4	5	5		9	7	œ	6	10	17	12	13	14	15	16	17	18	19	20

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALTZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric	Conc.		316.94	316.57	316.31	316.74	317.12	320.10	317.99	316.23	316.98	317.99	318.04	318.80	318.50	318.76	320.02	320.70	319.26	318.30	318.97	318.97	318.59			318.25	319,94	320.75	320.03	319.91
10		Index		315.97	315.66	315.45	315.80	316.11	318.56	316.83	315.38	316.00	316.83	316.87	317.49	317.25	317.46	318.49	319.05	317.87	317.08	317.63	317.63	317.32	316.76	317.39	317.04	318.43	319.09	318.50	318.40
6	ce Tank	Index		313.65																						313.76	3 Average				
88	Reference	Š.		0909																						11633	Movember 13 Average				
7	Computed	Index Diff.		2.32	2.01	1.80	2.15	2.46	4.91	3.18	1.73	2.35	3.18	3.22	3.84	3.60	3.81	78.7	5.40	4.22	3.43	3.98	3.98	3.67	3.11	3.63		4.67	5.33	4.74	79.7
9	Recorder	Scale		3.46																											
5	Adjusted	Scale Diff.		0.67	0.58	0.52	0.62	0.71	1.42	0.92	0.50	0.68	0.92	0.93	1.11	1.04	1.10	1.40	1.56	1.22	0.99	1.15	1.15	1.06	0.90	1.05		1.35	1.54	1.37	1.34
7	Barometric	Pressure (inches)		1,11,1	1018.5	1023.2	1032.5	1033.0	1031.9	1027.0	1019.3	1018.5	1020.5	1016.5	1029.1	1025.0	1010.4	1007.9	1007.8	1004.5	1013.8	1015.2	1017.9	1027.6	1036.6	1033.3		1022.6	1020.6	0.8660	0993.8
3	No. of	Compar- 1sons		45	27	21	77	48	37	47	94	47	77	97	36	77	97	87	75	47	47	47	94	42	27	21		26	47	48	87
2	Observed	Scale Diff.		0.67	0.58	0.53	0.63	0.72	1.44	0.93	0.50	0.68	0.92	0.93	1.12	1.05	1.09	1,39	1.55	1.21	66.0	1.15	1.15	1.07	0.92	1.07		۳.	S	c,	1.31
Col: 1	Day of	Month	1966	Oct. 21		77	25	79	27	28	29	30	31	Nov. 1		4	5	•	7	∞	6	10	11	12	13	13		14	15	16	17

TABLE 7a: INDICES OF ". " CONTINUOUS ANALYZER EARNOW, ALA. " ALBON DIOXIDE FROJECT

Col: 1	2	c	7	5	9	1	80	6	10	11
Day of	Observed	No. of	Barometric	Adjusted	Recorder	Computed	Reference	ce Tank	Air	Manometric
Month	Scale Diff.	Compar- Isons	Pressure (inches)	Scale Diff.	Scale Factor	Index Diff.	No.	Index	Index	Conc. (ppa)
1940				1						
Nov. 18	~	87	1004.8	1.30	3.46	4.50	11633	313.76	318.26	319.74
	. 2	84	1015.5	1.26		4.36			318.12	319.56
20	~	28	1016.5	1.27		4.39			318.15	319.60
21	. 2	45	1018.2	1.20		4.15			317.91	319.31
22	. 2	87	1015.5	1.27		4.39			318.15	319.60
23		47	1009.5	1.20		4.15			317.91	319.31
24	. 6	87	1006.3	96.0		3.43			317.19	318.43
25		87	1017.5	1.11		3.84			317.60	318.93
26	! ~	7.7	1030.9	1.16		4.01			317.77	319.14
27	. "	43	1029.6	1.23		4.26			318.02	319.44
28	-	47	1021.5	1.16		4.01			317.77	319.14
29	0	77	1021.7	1.06		3.67			317.43	318.72
30	•	77	1028.2	1.49		5.16			318.92	320.54
Dec. 1	1.32	87	1025.3	1.29		4.46			318.22	319.69
,	•	27	1033.4	1.23		4.26			318.02	319.44
m	•	97	1011.5	1.30		4.50			318.26	319.74
7	•	47	1023.2	1.43		4.95			318.71	320.28
S	•	97	1017.1	1.71		5.92			315.68	321.47
9	•	31	1022.1	1.88		6.50			320.26	322.17
7	•	97	1033.8	1.37		77.7			318.50	320.03
80	•	46	1037.8	1.42		4.91			318.67	320.24
6		87	1029.7	1.78		6.16			319.92	321.76
10	•	47	1021.4	1.71		5.92			319.68	321.47
11	•	47	10,5.7	1.70		5.88			319.64	321.42
12		47	10.00	1.90		6.57			320.33	322.26
13	1.66	87	1007.6	1.67		5.78			319.54	321.30
14	•	87	1007.6	1.76		60.9				321.67
1.5	•	87	1006.1	1.67		5.78			319.54	321.30

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric Conc. (ppm)		321.84	321.79			322.14	322.29	322.12	321.92	321.75	321.92	322.42	322.04	321.66	321.32	321.25	321.87	321.83	321.83		372.29	324.17	324.03	323.85	323.01	322.93	322.64	322.81	322.38
10	Afr Index		319.99	319.95	319.92	320.6	320.2	320.36	320.22	320.05	319.91	320.05	320.46	320.15	319.84	319.56	319.50	320.01	319.98	319.98		320.36	321.99	321.78	321.64	320,95	320.88	320.64	320.78	320.43
6	ce Tank Index		313.76			326.00	18 Average																							
8	Reference No.		11633				December 1																							
7	Computed Index Diff.		6.23	6.19	6.16	- 5.33		- 5.64	- 5.78	- 5.95	- 6.09	- 5.95	- 5.54	- 5.85	- 6.16	- 6.44	- 6.50	- 5.99	- 6.02	- 6.02		- 5.64	- 4.01	- 4.22	- 7 36	- 5.05	•	- 5.36	- 5.22	- 5.57
9	Recorder Scale Factor		3.46																											
5	Adjusted Scale Diff.		1.80	1.79	1.78	- 1.54		- 1.63	- 1.67	- 1.76	- 1.76	- 1.72	- 1.60	- 1.69	- 1.78	- 1.86	- 1.88	- 1.73	- 1.74	- 1.74		- 1.63	- 1.16	- 1.22	- 1.26	- 1.46	•	- 1.55	- 1.51	- 1.61
4	Barometric Pressure (inches)		8.5660	0.4660	10001	1005.8		1010.8	1014.7	1026.6	1026.6	1022.5	1028.7	1032.6	1020.3	1017.6	1012.5	1000.0	4.7660	1001.0		1004.6	1014.5	1021.3	1004.0	0.9660	0992.5	7.7660	1009.0	1611.0
٦	No. of Compar- isons		84	87	27	19		34	94	87	87	87	87	47	97	94	87	48	45	4.5		87	30	14	97	87	87	87	87	36
2	Observed Scale Diff.		1.77	1.75	1.75	- 1.52		- 1.62	- 1.67	- 1.74	- 1.78	- 1.73	- 1.62	- 1.72	- 1.79	- 1.86	- 1.87	- 1.70		- 1.72		- 1.61	- 1.16	•		_	- 1.45			,i
Co1: 1	Day of Month	1966	Dec. 16	17	18	18		19	20	21	22	23	24	25	26	27	28	29	30	31	1967	Jan. 1		. ~	7	<u>٠</u>	vo	7	90	6

PARTY No. 1. TREPTERS OF AIR STREET CONTINUEDS ABALTZER FACTOR OF STREET PROJECT

ر ر ر	~			By**	ع.	7	#	c	10	11
(a) 5 m (c)	1 日本の日本の		OF ALBERT RE	ACT TO PRECENT	KOYJUCE'R	Company and	Kef er rece	e Tani	Alr	Manometric
Acol.	ない。	1. 医自己	が 大田 (100mm)	100 mm mm mm mm mm mm mm mm mm mm mm mm m	8	S. C. C. C. C. C. C. C. C. C. C. C. C. C.		s.apu.	Index	Conc.
1.653	The transfer of the second property of the se		promised a main all owns on any layer				1 a man a		-	
		:			4	84 7	£ 500 4 .	13% 20	120 91	322.96
32. 35		7		4 -	Si s	٠.			20.026	122 13
	40 4.4	Œ.	0.00 to	٠					× 5 5 6 5 6 5 6 5 6 5 6 6 6 6 6 6 6 6 6	166.33
<u></u>	(S) (S)		\$ 100 miles	(f) (*)					320.00	
~) T (=(C) ==(C)	e,	2003.6	1,66		5.74		313,76	319.50	•
							Lamery 12	SERVICE A	326.13	322.01
:		r C	6.6301	14.) 14.)		4			320.02	321.70
		r.	0,37,51	5.53			1001	310.36	119.29	
j		•					January 12	Average	319.87	321.70
71		601 -47	1026.3	2.67		84.3			1.9.60	321.37
7 s/ 4 =	0.4.9	-4 00	1022.0	2.48		8.58			318.94	320.56
* *	120	22	1022.0	2.66		9.20			319.56	321.32
i r	27.0	. 67 9	1011.9	2.75		9.52			319.88	321.71
35	71.77	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0993.8	2.83		9.79			320.15	322.04
51	2.74	ć 7	0,683.9	7.80		69.6			320.05	321.92
. છ	2.53	1.7	1,002.5	2.62		9.07			319.43	321.16
	2.73	87	1007.1	2.75		9.52			319.88	321.71
200	2.60	87	1009.9	2.61		9.03			319.39	321,11
23	2.55	.9	1008.0	2.57		8.89			319.25	320.94
70	2,32	46	1015.1	2.92		10.10			320.46	322.42
 	2.81	97	1012.7	2.82		9.76			320.12	322.00
) (4)	2.3	- 00 - 7	1027.1	2.73		9.45			319.81	321.62
7,) X	1030.0	2.82		9.76			320.12	322.00
, oc	2 90	67	1023.0	2.88		96.6			320.32	322.25
0,0	2, . c	87	1012.0	2.81		9.72			320.08	321.95
();	2 6	77	1020.9	2.77		9.58			319.94	321.78
31	2,73	- 6 00 - 137	1026.2	2.70		9.34			319.70	321.49
	7 7 5	87	1025.6	2.72		9.41			319.77	321.58
	. ~	17	1023.0	2.77		9.58			319.94	321.78
1 (7)	2.73	37	1014.5	2.73		9.45			319.81	321.62
: • 3		87	1018.7	2.76		9.55			319.91	321.75

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

္ပ	e-4	(3	3	7	\$	9	7	œ	6	10	11
Day of	 بيا	Observed	No. of	Barometric	Adjusted	Recorder	Computed	Reference	nce Tank	Air	Manometric
Month		Scale	Compar-	Tressure (taches)	Scale	Scale	Index	S.	Index	xap::	Conc.
		0.111.	130115	(63,1,1,1)				· Care			
1981											
69.	so.	3.22	47	3030.5	3.17	3.46	10.97	10076	310.36	321.33	323.48
	œ	3.44	47	1029.6	3.39		11.73			322.09	324.40
	۲۰.	3.27	94	1021.7	3.25		11.25			321.61	323,82
	œ	•	43	5.6101	2.93		10.14			320.50	322.47
	<i>ড</i>	•	8*	1023.1	2.95		10.21			320.57	322.55
	10	•	∞	1025.7	3.01		10.41			320.77	322.79
	ĩ	٠	87	1021.7	2.83		9.79			320.15	322.04
	(4	•	84	1020.1	2.68		9.27			319.63	321.41
	13	•	47	1022.2	2.75		9.52			319.88	321.71
-	14	•	64	1027.9	2.98		10.31			320.67	322.67
-	15		47	1024.5	3.15		10.90			321.26	323.39
12	91	•	47	1012.2	2.71		9.38			319.74	321.54
7 -	17	2.93	87	0999.2	7.98		10.31			320.67	322.67
	18		87	6.4660	2.77		9.58			319.94	321.78
	19	•	8,7	1001.8	2.73		6.45			319.81	321.62
	20		47	1004.8	2.65		9.17			319.53	321.28
	21	•	87	1004.6	2.68		9.27			219.63	321.41
	22		32	1007.2	2.71		9.38			319.74	
	22	•	14	1011.7	2.18		7.54	10063	313.07	320.61	
								February	February 22 Average	320.00	321.86
	23	•	87	1018.4	2.39		8.27			321.34	323.49
	77	•	848	1024.5	2.68		9.27			322.34	324.71
	25	2.56	28	1019.1	2.55		8.82			321.89	324.16
	5 8		87	1009.1	2.17	3.44	7.46			320.53	322.50
	2,3	•	47	1010.5	2.46	3.41	8.39			321.46	323.64
	67 82		87	1012.0	2.47	3.39	8.37			321.44	323.61
Υ.	~	•	63	1018.1	2.46	3.37	8.29			321.36	323.51
	2	2.40	43	1017.4	2.40	3,35	8.04			321.11	323.21

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIGZIDE PROJECT

i	2	3	4	5	9	7	80	1	10	11
5 °	Observed Scale Diff.	No. of Compar- 1sons	Barometric Pressure (inches)	Adjusted Scale Diff.	Recorder Scale Factor	Computed Index Diff.	No.	e Tank Index	Air Index	Manometric Conc. (ppm)
	2.42	87	1015.4	2.42	3.32	8.03	10063	313.07	321.10	323.20
	2.41	84	1019.7	2.40	3.30	7.92			320.99	323.06
	2.60	47	1029.2	2.57	3.28	8.43			321.50	323.68
•	2.55	35	1022.1	2.53	3.25	8.22			321.29	323.43
	2.49	16	1019.5	2.48	3.23	8.01			321.08	323.17
	2.93	47	1027.2	2.89	3.22	9.31			322.38	324.76
6	2.82	87	1028.5	2.78	3.19	8.87			321.94	324.22
	2.88	48	1029.4	2.84	3.17	9.00			322.07	324.38
	2.51	848	1005.2	2.54	3.15	8.00			321.07	323.16
	2.72	48	1020.0	2.71	3.13	8.48			321.55	323.74
13	2.66	41	1026.7	2.63	3.10	8.15			321.22	323.34
	2.27	87	1019.7	2.26	3.08	96.9			320.03	321.89
	2.38	8,	1018.5	2.37	3.06	7.25			320.32	322.25
	2.63	87	1024.0	2.61	3.03	7.91			320.98	323.05
	2.35	87	1016.6	2.35	3.01	7.07			320.14	322.03
	2.59	84	1023.9	2.57	2.99	7.68			320.75	322.77
	2.55	87	1029.2	2.52	2.96	7.46			320.53	322.50
	2.49	07	1019.1	2.48	2.%	7.29			320.36	322.29
	2.75	87	1021.2	2.73	2.92	7.97			321.04	323.12
	2.88	87	1035.3	2.83	2.90	8.21			321.28	323.42
	2.46	87	1029.0	2.43	2.87	6.97			320.04	321.90
	2.57	87	1027.9	2.54	2.85	7.24			320.31	322.23
	2.55	87	1024.3	2.53	2.83	7.16			320.23	322.14
	2.19	48	1016.2	2.19	2.80	6.13			319.20	320.88
	2.25	17	1015.0	2.25	2.78	6.26			319.33	
	2.57	13	1016.9	2.57	2.76	7.09			320.16	
			,	,			March 27 Av	Average	319.69	321.48
	2.47	84	1021.2	2.46		6.79			319.86	321.69
	_	48	1021.4	2.18		6.02			319.69	325.75

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric	Coute.		321.38	320.81	321.59	321.15	321.99	321.89	321.21	319.64			329.50			321.04	322.25	321.73	322.82	321.22	321.75	322.08	326.94	327.67	324.89	324.38	325.11			323.89	324.49
1.0	Air	Index		319,61	319.14	319.78	319,42	320.11	320,03	319,47	318.18	318.78	319.13	318.89	318.99	323.05	319.33	320.32	319,90	320.79	319.48	319.91	320.18	324.17	324.77	322.49	322.07	322,67	321.61	321.98	321.67	322.16
6	nce Tank	Index		313.07									311.79	verage			verage														Average	
89	Reference	Мо.		10963									19061	April 7 Average			April 8 Average														April 20 Average	
7	Computed	Index Diff.		6.54	6.07	11.9	6.35	7.04	96.9	07.9	5.11	5.71	7.34		7.20	11.26		8.53	8.11	9.00	7.69	8.12	8.39	12.38	12.98	10.70	10.28	10.88	9.82	10.19		10.37
9	Recorder	Scale Factor		2.76												2.83		2.90	2.97	3.0	3.10	3.17	3.24	3.31	3.38	3.44	3.51	3.58	3.65	3.60		
\$	Adjusted	Scale Diff.		2.37	2.20	2.43	2,30	2.55	2.52	2.32	1.85	2.07	2.66		2.61	3.38		2.94	2.73	2.96	2.48	2.56	2.59	3.74	3.84	3.11	2.93	3.04	2.69	2.83		2.88
4	Barometric	Pressure (inches)		1019.7	1016.8	1021.1	1015.0	1019.0	1019.4	1019.9	1016.3	1013.0	1015.1		1017.8	1021.0		1019.2	1009.5	1012.7	1007.5	1007.9	1012.5	1028.5	1023.6	1010.5	1023.9	1006.9	1007.8	1017.5		1012.8
3	No. of	Compar- 1sons		87	84	87	87	47	84	88	84	33	15		22	7		48	43	26	16	47	33	35	36	33	33	37	26	ď۱		35
2	Observed	Scale Diff.		3,38	2.20	2.66	2.28	2.56	2.53	2,33	1.85	2.06	2.66) •	2.61	4.00	•	2,95	2.71	2.95	2.46	2.54	2.58	3.79	3.87	3.09	2.95	3.01	2.67	2.83		2.87
Co1: 1	Day of	Month	1967		31	Ant		1 m	, ,		9	7	. ~		œ 29	- oc	>	6	10	11	12	12	14	15	16	17	18	19	20	20		21

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric	Conc.		325.15		325.18			324.93			324.13	324.84	•			325.06			325.50	326.60		326.68	326.28							
10	Afr	Index		322,70	322.19	322.73	322.55	323.06	322.52	322.59	322.30	321.87	322.45	322.73	322.95	322.55	322.63	322.37	322.63	322.99	323.89	323.24	323.96	323.63	322.19	321.40	320.93	321.22	320.75	321.23	
6	ence Tank	Index		311.79																										313.06	
80	Reference	No.		10067																										10068	
7	<u>.c.</u>	Inder Diff.		10.91	10.40	10.94	10.76	11.27	10.73	10.80	10.51	10.08	10.66	10.94	11.16	10.76	10.84	10.58	10.84	11.20	12.10	11.45	12.17	11.84	10.40	9.61	9.14	9.43	8.96	8.17	
9	Recorder	Scale		3.60																											
\$	Adjusted	Scale Diff.		3.03	2.89	3.8	2.99	3.13	2.98	3.00	2.92	2.80	2.96	3.04	3.10	2.99	3.01	2.94	3.01	3.11	3.36	3.18	3.38	3.29	2.89	2.67	2.54	2.62	2.49	2.27	
7	Barometric	Pressure (inchen)		1007.2	1014.0	1015.9	1020.4	1011.8	1001.7	1010.9	1020.1	1029.6	1028.2	1019.1	1.005.5	0998.7	1005.7	1007.2	1007.0	1023.7	1019.7	1018.5	1017.2	1027.9	1030.1	1030.6	1034.1	1017.5	1008.1	1009.8	
3	No. of	Compar- isons		43	45	77	45	45	77	87	47	47	07	48	97	48	48	48	47	97	48	87	48	47	29	87	45	22	16	11	
2	Observed	Scale Diff.		3.00	2.88	3.04	3.00	3.12	2.94	2.99	2.93	2.63	3.60	3.05	3.07	2.94	2.98	2.92	2.99	3.14	3.37	3.19	3,39	3,33	2.93	2.71	2.59	2.63	2.47	2.26	
5	Day of	Month	1967	Apr. 22		24	25	26	27	28	29	30	Hav 1		m)Ei	4		v	7	œ	6	10	11	12	13	14	15	16	17	11	i

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric Conc. (ppm)		324.01	323.84	323.27	323.18	323.54	322.96	323.10	322.00	322.92	323.57	324.01	324.38	323.22	323.40	322.22	321.95	322.92	322.88	323.34	322.75	319.93	319.89	318.53	327.66	324.10	323.98	324.20	324.85	322.22
10	Air		321.77	321.63	321.16	321.09	321.38	320.91	321.02	320.94	320.87	321.41	321.77	321.99	321.12	321.27	320.30	320.08	320.87	320.84	321.23	320.73	318.42	318.39	317.27	324.76	321.84	321.74	321.92	322.46	320.30
6 7 8 9	nce Tank Index		313.06																												
8	Reference No.		10068																												
7	Computed Index Diff.		8.71	8.57	8.10	8.03	8.32	7.85	7.96	7.88	7.81	8.35	8.71	8.93	8.06	8.21	7.24	7.02	7.81	7.78	8.17	7.67	5.36	5.33	4.21	11.70	8.78	8.68	8.86	9.40	7.24
6.	Recorder Scale Factor		3.60																												
5	Adjusted Scale Diff.		2.42	2.38	2.25	2.23	2.31	2.18	2.21	2.19	2.17	2.32	2.42	2.48	2.24	2.28	2.01	1.95	2.17	2.16	2.27	2.13	1.49	1.48	1.17	3.25	2.44	2.41	2.46	2.61	2.01
7	Barometric Pressure (inches)		1012.7	1015.6	1017.7	1019.2	1014.0	1013.5	1018.5	1013.8	1018.0	1020.0	1018.5	1015.0	1010.5	1007.0	1007.3	1012.6	1018.9	1017.8	1014.2	1016.0	1018.5	1017.5	1020.3	1011.3	1011.0	1008.2	1012.1	1016.7	1022.6
m	No. of Compar- isons		848	84	87	94	47	47	87	87	87	87	87	45	42	38	97	87	47	87	87	97	46	84	19	S	٣	42	48	87	87
74	Observed Scale Diff.		2.41	٣.	2.25	7	٣.	٦.	7	۲.	7	٣.	3.	7.	7	. 2	1.99	•	2.18		•	•		•	•				7	્	0
Co1: 1	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	1967	May 18		20	21	22	23	24	25	26	27	28		98	31	June		'n	7	S	9	7	0 0	6	10	12	13	14	15	16

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALTZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Hanometric Conc. (ppm)	321,51	322.39	323.35	322.)2	322.61	320.86	322.53	322.09	322.17	321.47	319.89			318.14	320.15	319.65			320.66	320.50	319.42	320.50	320.31	320.16	320.59	319.86	319.61	
10	Air Index	21.0	320.44	321.23	320.87	320.62	319.18	320.55	320.19	320.26	319.68	318.39	316.30	318.89	316.95	318.60	319.20	319.00	319.07	319.02	318.89	318.00	318.89	318.73	318.61	318.96	318.36	318.16	
6	nce Tank Index		313.06											115.90	June 28 Average	ì				July 1 Average)								
80	Reference No.		10068											30454	June 28	i I				July 1									
7	Computed Index Diff.		6.66	35.	8.17 7 81	70.7	61.7	77.49	7 13	66.1	07.7	5 23	7,0	, 0		2.70	2.30	3,10	3.17	i :	7 99	,,,,	2.10	6.73	6.03	7.7	3.06	2.46	97.7
9	Recorder Scale Factor		3.60																87.	2									
\$	Adjusted Scale Diff.		1.85	2.05	2.27	2.17	2.10	1.70 3.80	۶۰۰۵ د ۱۹۵۰	1.98	2.00	1.84	1.48	0.90	0.83	75		70 0	20.0	1.79	07.	7.00 7.00	1.18	1.68	1.59	1.52	1.72	1.38	1.27
4	Sarometric Fressure (inches)		1023.1	1020.2	1026.5	1020.3	1017.5	1016.3	0.9101	1016.2	1014.5	1010.5	1007.7	1007.6	1011.0	3 2101	1022.4	, ,	1077.4	1019.2		1014.7	1011.7	1012.7	1010.5	1010.4	1007.2	1009.4	1013.7
•	No. of Compar- 1sons		46	87	42	87	87	42	84	94	848	47	15	12	4		t t	: (81	S.	,	848	747	39	87	48	45	43	48
,	Observed Scale Diff.		1.86	2.06	2.30	2.18	2.10	1.70	2.08	1.98	2.00	1.83	1.47	0.89	0.83	,	0.75	5	0.87	1.79		1.68	1.18	.67	1.58	1.51	1.71	1.37	1.27
	Col: 1 Day of Month	1967	Trine 17		19	20	21	22	23	24	1 25		5 2		28		29	2	July	-		2	n	7	50	, vc	, ,	- oc	6

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric	Conc. (ppm)		318.36	316.80	316.31	316.80	314.43	311.78	313.22	313.46	313.44	315.67	317.41	317.27	316.49	316.47	316.41	316.10	315.80	315.86	315.86	315.71	314.64	314.91			314.22	311.77	313.68	312,23	312.91
10	Air	Index		317.13	315.85	315.45	315.85	313.91	311.73	312.91	313.11	313.09	314.92	316.35	316.24	315.60	315.58	315.53	315.28	315.03	315.08	315.08	314.96	314.08	314.30	313.84	312.99	313.73	311.72	313.29	312.10	312.66
6	nce Tank	Index		315.90																							310.46	Average				
∞.	Referenc	No.		30454																							10075	August 1				
7	Computed	Index Diff.		1.23	- 0.05	- 0.45	- 0.05	- 1.99	- 4.17	- 2.99	- 2.79	- 2.81	- 0.98	0.45	0.34	- 0.30	- 0.32	- 0.37	- 0.62	- 0.87	- 0.82	- 0.82	- 0.54	- 1.82	- 1.60	- 2.06	2.53		1.26	2.83	1.64	2.20
9	Recorder	Scale		1.78														•		•	•	•	•	•	•	•			1.77		1.76	
\$	Adjusted	Scale Diff.		0.69	- 0.03	- 0.25	- 0.03	- 1.12	- 2.34	- 1.68	- 1.57	- 1.58	- 0.55	0.25	0.19	- 0.17	- 0.18	- 0.21	- 0.35	0.49	- 0.46	- 0.46	- 0.53	- 1.02	- 0.90	- 1.16	1.42		0.71	1.60	0.93	1.25
7	Barometric	Pressure (inches)		1020.5	1018.0	1016.5	1015.6	1013.8	1009.3			0995.7	0992.1	8.9660	1000.7				1015.3	1012.7						1012.4	1017.0		1014.9	1015.7	1023.3	1023.1
3	No. of	Compar- isons		47	39	22	47	45	77	87	97	45	7.7	28	47	48	87	94	47	97	97	87	77	87	47	21	3		47	87	77	87
2	Observed	Scale Diff.		0.69	- 0.03	- 0.25	0	- 1.12	- 2.33	- 1.65	- 1.53	•	•	•	0.19	•	•	•	•	•	•	95.0 -	•	•	•	- 1.16	1.42		0.71	1.60	96.0	1.26
Col: 1	Day of	Month	1967	July 10	11	12	13	14	15	16	17			50		22	23	24	25	56	27	28	29	30	31.	Aug. 1	П		2	٣	7	5

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric	Conc.		313.28	313.19	313.33	313.29	313.81	314.45	313.78	313.55	312.92	313.07	313.11	314.41	316.97	312.61	312.34	312.50	313.79	313.00	311.85	311.64	312.86	312.16	312.35	311.53	311.50	311.66	311.73
10	Air	Index		312.96	312.89	313.00	312.97	313.40	313.92	313.37	313.18	312.67	312.79	312.82	313.89	315.99	312.25	312.19	312.32	313.38	312.73	311.79	311.62	312.62	312.04	312.20	311.53	311.50	311.63	311.69
6	ice Tank	Index		310.46																										
8	Reference	No.		10075																										
7	Computed	Index Diff.		2.50	2.43	2.54	2.51	2.94	3.46	2.91	2.72	2.21	2.33	2.36	3.43	5.53	1.79	1.73	1.86	2.92	2.27	1.33	1.16	2.16	1.58	1.74	1.07	1.04	1.17	1.23
9	Recorder	Scale Pactor		1.75		1.74		1.73		1.72		1.71		1.70		1.69		1.68		1.67		1.66		1.65		1.64		1.63		1.62
5	Adjusted	Scale Diff.		1.43	1.39	1.46	1.44	1.70	2.00	1.69	1.58	1.29	1,36	1.39	2.02	3.27	1.06	1.03	1.11	1.75	1.36	0.80	0.70	1.31	96.0	1.06	0.65	0.64	0.72	0.76
4	Barometric	Pressure (inches)		1017.6	1014.8	1009.5	1001.9	1005.0	1006.7	1010.7	1017.0	1019.1	1013.4	9.6660	0998.5	1002.0	1009.4	1005.9	1008.3	1007.7	1008.1	1008.3	1003.8	0999.2	1005.5	1010.3	1016.3	1023.5	1020.7	1017.7
3	No. of	Compar- isons		47	97	48	94	48	87	46	87	42	47	94	84	84	84	84	97	84	77	848	84	87	97	47	97	87	94	87
2	Observed	Scale Diff.		1.43	1.39	1.45	4	1.68	1.98	1.68	1.58	•	•	•	•	3.23	1.05		1.10	1.74	1.35	0.79	0.69	1.29	0.95	1.05	0.65	0.65	0.72	0.76
Co1: 1	Day of	Month	1967	Aug. 6		∞	6	10	11	12	13	14		91	- 17		19	20	21	22	23	24	25	26	27	28	29	30	31	Sept. 1

TABLE 7a: INDICES OF AIR WITH CONTINUOUS ANALYZER BARROW, ALASKA CARBON DIOXIDE PROJECT

11	Manometric	Conc. (ppm)		311.67	312.31	311.96	312.35	312.53	312.24	312.47	312.24	312.31	312.38	312.67	312.92	313,12	313.12
10	Air	Index		311.64	312.17	311.88	312.20	312,35	312,11	312.30	312.11	312.17	312.22	312,46	312.67	312.83	312.83
6	Reference Tank	Index		310.46													
8 0	Referen	No.		10075													
7	Computed	Index Diff.		1.18	1.71	1.42	1.74	1.89	1.65	1.84	1.65	1.71	1.76	2.00	2.21	2.37	2.37
9	Recorder	Scale Factor		1.62	1.61	1.60			•								
5	Adjusted	Scale Diff.		0.73	1.06	68.0	1.09	1.18	1.03	1.15	1.03	1.07	1.10	1.25	1.38	1.48	1.48
7	Barometric	Pressure (inches)		1016.3	1013.2	1011.5	1013.9	1015.6	1012.3	1006.7	1010.2	1014.5	1014.8	1008.4	1005.4	1005.7	1007.3
3	No. of	Compar- 1sons		87	87	27	47	87	87	87	87	87	45	84	84	4 8	87
2	Observed	Scale Diff.		0.73	1.06	0.89	1.09	1.18	1.03	1.14	1.02	1.07	1.10	1.24	1.37	1.47	1.47
Co1: 1	Day of	Month	1967	Sept. 2	3	7	Ŋ	9	7	80	6	10	11		13	14	15

TABLE 8 : MONTHLY INDEX OF CARBON DIOXIDE (ppm) AT BARROW, ALASKA BARROW DIOXIDE PROJECT

6	Index		317.76	318.87	10:010	319.40	318.92	319.35	317.50	313.62	309.84	310.87	ì	1	1
8	Number of Days	1963	7.0	20	9 6	OF :	15	31	5 6	31	31	27	-	-	
7	Month		5	Jan.		Har.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
9	Index		07 000	320.49	319.47	317.63	318.00	318.80	317.44	311.89	307.63	309.80	312.79	315.92	317.17
\$	Number of Days	1962	,	97	87	29	30	31	30	31	53	28	30	30	31
4	Month		•	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
3	Index			!	!	1	}	•	1	310.85	307.92	310,33	314.31	315.02	316.00
Col: 1 2	Month Number of Index Days	1961		1	•	i	1		}	21	24	23	28	18	14
H	Month			Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept	Oct.	Nov	Dec.
Co1:															

MONTHLY INDEX OF CARBON DIOXIDE (ppm) AT BARROW, ALASKA BARROW, ALASKA CARBON DIOXIDE PROJECT TABLE 8a:

6	Index		320.24	320.58	320.69	321.28	321.97	320.21	315.96	312.75	332.24	:	•	i (;
œ	Number of Days	1967	31	28	31	30	31	29	53	17	of similar	:	!	!
	Nonth		Jan.	Feb.	Mar.	Apr.	Hay	€ Car	3012♥	4.49	5697.	Oct.	News.	Derc.
9	Index		319.49	319.30	319.83	320.32	07,078	320.10	116.77	311.23	317.25	315.48	317.89	314.45
5	Number of Index Days	1966	31	2.8	31	c •`	31	25	r'i	<u>ر</u> د د	<u>ي</u>	30	Ç4	<u></u> ,
7	Month		Jan.	Feb.	1	A 1: 1.	¥41.¥	₩ U-1j	2 -4 -5		6. 6. 6.	148.	302	fie :
3	Index		320.24	320,97	322.34	321.47	327.44	X.37 (17.50)	714.87	316,40	310.74	37.0.46	317.78	317.88
2	Month Number of Index Days	1965	č.	×	e) a)	 h.,	200	<u>ሙ</u>	2	2.5	e C	1.	Q.	Ξ
Col: 1 2	Month		Jan.	اله اد	1,11	Arr		÷ů:	*(2.7	Aus.	Sept.	. ; . ; .	XQX.	ξ. ζ.
Co1:														

SABLE D. F. MENTHUM INVERT OF CARBER DISTING FORD) AT BARRING, ALASTA CARBER DISTING FROMEOT.
NAMED OF CONTINUESTORY SCALE.

Trade for the		51.0	120.68	000 mon	120.54	121.06	118.81	314.08	309.47	310.73	1	1	•	317.28
New Services	1067													
Ponth		3.88	Peh.	Her.	Apr.	May	June	July	ALR.	Sept.	Oct.	Nov.	Dec.	
index.		322.45	371,23	318.97	319.42	320.39	318.74	311.97	306.78	309.43	313.07	316.85	318.41	316.48
Money Money of Todes Money Manney of Character of Charact	1962	26	g gar	58	20	31	200	31	29	28	30	30	31	
Works is		. E #		Mer.	Apr	M A	Inne	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Index		• •	1 		į			310.70	227.14	310.07	314.92	315.79	316.98	312.60
Finith Number of Sudex Dave	1961	!						2 [77	23	28	18	14	jo a
Fonth P			0 d d		. 181	Apr.	7.000	J. 1.	4100	Sport	0.00	Nov	Dec.	Average Monthly

TABLE 9a: MONTHLY INDEX OF CARBON DIOXIDE (ppm) AT MARROW, ALASKA CARBON DIOXIDE PROJECT
MANOWETRIC CONCENTRATION SCALE

6	Index		322.14	322.56	323.41	324.25	322.11	316.93	313.02	312.40	:	ŀ	!	319.95
8	Number of Days	1967	31	3.8	30	31	29	33	31	15		ļ	-	
7	Month		Jan.	reb.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
و	Index		321.24	321.71	322.25	322.73	321.98	315.47	311.15	312.27	316.34	319.28	321.43	318.90
2	Number of Index Days	1966	31	31	30	31	25	31	31	30	30	29	31	
7	Month		Jan.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
3	f Index		322.14	323.49	323.64	324.83	321.22	315.61	310.16	310.58	316.79	318.54	319.28	319.11
2	Month Number of Index Days	1965	24	28	25	53	19	31	31	30	31	30	31	of
Col: 1	Month		Jan. Feb.	Mar.	Apr.	May	, une	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average (Monthly Values
3														

TABLE 10: TWELVE MONTH RUNKING MEAN CONCENTRATION OF ATMOSPHERIC CARBON DIOXIDE AT BARROW, ALASKA BARROW, ALASKA CARBON DIOXIDE PROJECT

9		1967	319.43 319.55 319.70 319.71
5		1966	318.49 318.48 318.56 318.70 318.70 318.90 318.98 319.11
7	Concentration of ${\rm CO}_2$ (ppm)	1965	319.11 319.04 318.37 318.72 318.60 318.43
E	Concentratio (ppm)	1963	316.48 316.66 316.99 316.99
7		1962	316.40 316.50 316.47 316.27 316.27 316.26 316.20 316.48
-	Month		January February March April May June July August September October November
Col:			•••

VALUES OF TABLES 9,98 REFERRED TO A CONSTANT DATUM (January 1960) BARKOW, ALASKA CARBON DIOXIDE PROJECT TABLE 1;:

æ	Departure of Average from Annual Hean			-3.41	13.60	2 2 2	7.5 6.7	19:0-	-2 27	7 BO	00.0	0.57	,	77.7	-1.15
œ	Average		1961-1967	318.10	318.29	318.19	318.36	319.10	316 95	310.86	306.33	307.55	319 52	317.22	315.84
7			1967	317.10	317.46	317.53	318.19	318.97	316.77	311.53	307.56	306.88		F 1	ļ
9			1966	316.92	316.63	317.27	317,75	318.15	317,36	310.79	306.41	307.47	311.48	314.36	316.45
5	lon of CO ₂		1965	318.54	319.38	319.77	319.86	320,99	317.32	311.65	306.14	306.50	312.65	314,34	315.02
7	Concentration of CO ₂ (ppm)		1963	316.94	318.26	318.94	318.20	318.66	316.35	311.56	306.89	308.09	1	ł	;
3		,	7967	321.01	319.71	317.41	317.80	318.71	317.00	310.17	304.92	307.51	311.09	314.84	316.31
2		. 70.	1961	!	!	1	ì	1	!	309.62	306.00	308.87	313.66	314.47	315.60
1	Month			January	February	March	Apr11	May	June	July	August	September	October	November	December
Co1:															

Annual Mean .

TABLE 12: DIURNAL VARIATION OF CARBON DIOXIDE BARROW, ALASKA CARBON DIOXIDE PROJECT

e.ber	Manometer (ppm)	310.2	310.4	310.4	310.5	310.7	310.6	310.6	310.6	310.7	311.0	310.5	310.5	310.1	310.3	310.2	310.4	310.2	310.4	310.3	310.0	309.7	309.8	310.4	310.7
Sept	Index	310.4	310.6	310.6	310.7	310.9	310.8	310.8	310.7	310.8	311.1	310.6	310.7	310.4	310.5	310.4	310.6	310.4	310.6	310.5	310.3	310.0	310.1	310.6	310.7
ust	Manometer (ppm)	306.9	307.1	307.1	309.0	308.2	308.3	308.1	308.9	308.2	307.5	307.3	307.1	306.6	306.4	306.6	306.6	306.9	306.7	306.8	306.8	307.0	306.6	306.3	306.5
Aug	Index	1.7.3	307.9	307.9	308.7	308.8	308.9	308.7	308.3	308.8	308.2	308.1	307.9	307.5	307.3	307.5	307.5	307.7	307.6	307.6	307.6	307.8	307.5	307.3	307.4
	Manometer (ppm)	310.6	310.7	311.1	310.8	311.4	311.2	311.1	311.3	311.0	310.7	310.3	310.4	310.7	310.7	310.5	310.3	310.7	305.5	309.7	309.6	310.0	310.5	310.1	309.8
July	Index	310.8	310.8	311.1	310.9	311.4	311.2	311.1	311.3	311.1	310.9	310.5	310.6	310.8	310.8	310.7	310.5	310.8	309.9	310.0	309.9	310.3	310.7	310.3	310.1
Month:	A. S. T.*	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	08-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
	Month: July August Septesber	T.* Index Manometer Index Manometer Index (ppm)	T.* Index Hanometer Index Manometer Index Index Index	T.* Index Manometer Index Manometer Index (ppm) 310.8 310.6 327.7 306.9 310.6 310.6	T.* Index Manometer Index Manometer Index (ppm) 310.8 310.7 307.9 307.1 310.6 311.1 311.1 307.9 307.1 310.6	T.* Index Manometer Index Manometer Index (ppm) 310.8 310.6 527.7 306.9 340.6 310.8 310.7 307.9 307.1 310.6 310.6 310.9 310.8 310.8 310.8 310.8 310.8 310.8 310.8 310.8	T.* Index Manometer Index Manometer Index (ppm) 310.8 310.6 527.7 306.9 340.4 310.8 310.7 307.9 307.1 310.6 311.1 311.1 307.9 307.1 310.6 310.9 310.8 308.7 309.0 310.7 311.4 311.4 308.8 308.2 310.9	T.* Index Manometer Index Manometer Index (ppm) 310.8 310.6 527.7 306.9 540.4 310.8 310.7 307.9 307.1 310.6 311.1 311.1 307.9 307.1 310.6 311.4 311.4 308.8 308.2 310.9 311.2 311.2 308.9 308.3 310.8	T.* Index Manometer (ppm) 310.8 310.6 527.7 306.9 240.4 310.8 310.7 307.9 307.1 310.6 311.1 311.1 307.9 307.1 310.6 310.9 310.8 308.7 309.0 310.7 311.4 311.4 308.8 308.2 310.8 311.1 311.1 308.7 308.1 310.8 311.1 311.1 308.7 308.1 310.8	T.* Index Manometer (ppm) 310.8 310.6 527.7 306.9 540.4 310.8 310.7 307.9 307.1 310.6 311.1 311.1 308.7 308.2 310.9 311.2 311.2 368.9 308.1 310.8 311.1 311.1 308.7 308.1 310.8 311.1 311.1 308.7 308.1 310.8 311.1 311.1 308.7 308.1 310.8 311.3 311.3 308.3 310.8	T.* Index Manometer (ppm) 310.8 310.6 527.7 306.9 540.4 310.8 310.7 307.9 307.1 310.6 311.1 311.1 308.9 308.2 310.8 311.2 311.2 308.7 308.1 310.8 311.1 311.1 308.7 308.1 310.8 311.1 311.1 308.7 308.1 310.8 311.1 311.1 308.7 308.1 310.8 311.1 311.1 308.7 308.1 310.8 311.1 311.1 308.3 310.7 311.1 311.1 308.3 308.9 310.7	T.* Index Manometer (ppm) 310.8 310.6 527.7 306.9 540.4 310.8 310.1 307.9 307.1 310.6 311.1 311.1 308.2 310.8 311.2 311.2 308.7 308.1 310.8 311.1 311.1 308.7 308.1 310.8 311.1 311.1 308.7 308.1 310.8 311.1 311.1 308.7 308.1 310.8 311.1 311.1 308.7 308.1 310.8 311.1 311.0 308.2 310.8 310.9 310.7 308.2 310.8	T.* Index Manometer (ppm) 310.8 310.6 5.27.7 306.9 5.00.4 310.8 310.1 307.9 307.1 310.6 311.1 311.1 308.2 310.8 311.2 311.2 308.9 308.1 310.8 311.1 311.1 308.7 308.1 310.8 311.1 311.1 308.2 310.8 310.9 310.7 308.1 310.8 310.9 310.7 308.1 310.8 310.9 310.7 308.1 310.8 310.9 310.7 308.1 310.8 310.9 310.7 308.1 310.8 310.5 310.3 308.1 307.3 310.6	T.* Index Manometer (ppm) 310.8 310.8 310.8 310.7 310.8 310.7 310.8 311.1 311.1 311.2 311.2 311.2 311.1 311.1 311.1 311.1 311.1 311.1 311.1 311.1 311.1 311.1 310.9 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.9 310.7 310.6 310.7 310.6 310.7 310.7 310.7 310.7 310.7 310.7 310.7 310.7 310.7 310.7 310.7	T.* Index Manometer Index Manometer (ppm) 310.8 310.6 5.27.7 306.9 240.6 310.8 310.1 310.1 307.9 307.1 310.6 310.9 311.1 308.2 310.8 310.7 311.4 311.2 308.8 308.2 310.8 311.1 311.1 308.7 308.1 310.8 311.1 310.7 308.2 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.6 310.6 310.7 310.6 310.6 310.7 308.1 307.1 310.7 310.6 310.6 310.7 307.5 310.6 310.7 307.5 310.6 310.7 307.5 310.7 307.5 310.7 310.7 307.5 310.7 310.7 307.5 310.7 310.7 307.5 310.7 310.7	T.* Index Hanometer (ppm) 310.8 310.6 5.27.7 306.9 240.4 310.8 310.8 310.7 307.1 310.6 310.6 310.6 310.7 310.8 310.7 310.8 310.7 310.9 311.2 311.2 308.9 308.1 310.8 311.1 308.7 308.1 310.8 311.1 311.1 308.7 308.1 310.8 310.7 310.8 310.7 310.7 310.8 310.7 310.8 310.7 310.7 310.8 310.7 310.8 310.7 310.6 310.7 310.6 310.7 310.8 310.8 310.7 310.8 310.7 310.8 31	T.* Index Manometer (ppm) 10.8 310.6 310.7 306.9 210.4 310.8 310.7 307.9 307.1 310.6 310.7 310.6 310.7 310.6 310.7 310.6 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.6 310.7 310.8 310.7 310.5 310.7 310.8 310.7 310.5 310.7 310.5 310.7 310.	T.* Index Manometer Index Manometer Index (ppm) 310.8 310.6 5.27.7 306.9 5.10.4 310.8 310.7 307.9 307.1 310.6 311.1 311.1 307.9 307.1 310.6 311.2 311.2 308.8 308.2 310.8 311.1 311.1 308.9 310.7 311.1 311.1 308.7 308.1 310.8 311.1 311.1 308.7 308.1 310.8 311.1 311.1 308.3 308.9 310.7 310.9 310.7 308.2 307.1 310.6 310.6 310.7 307.5 310.7 310.8 310.7 307.5 306.6 310.4 310.7 307.5 306.6 310.6 310.7 307.5 306.6 310.6 310.7 307.5 306.6 310.6 310.7 307.5 306.6 310.6	T.* Index Manometer Index Manometer Index (ppm) 310.8 310.6 3.27.7 306.9 240.4 310.8 310.1 307.9 307.1 310.6 311.1 311.1 308.2 308.2 310.8 311.2 311.2 308.3 308.3 310.8 311.1 311.1 308.1 308.1 310.8 311.1 311.0 308.8 308.2 310.8 310.9 310.7 308.2 307.1 310.8 310.6 310.4 307.5 306.6 310.4 310.8 310.7 307.5 306.6 310.6 310.8 310.7 307.5 306.6 310.6 310.8 310.7 307.5 306.6 310.6 310.8 310.7 307.5 306.6 310.6 310.8 310.7 307.5 306.6 310.6 310.8 310.7 307.5 306.6 310.6 310.8 310.7 307.7 306.9 310.6	T.* Index Manageter Index Hanometer Index (ppm) 310.8 310.6 307.7 306.9 310.6 310.8 310.8 310.1 310.1 310.8 310.7 310.6 310.7 310.6 310.7 310.6 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.6 310.6 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.8 310.7 310.8 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.7 310.8 310.8 310.8 310.7 310.8	T.* Index Manometer Index Manometer Index (ppm) 310.8 310.6 3.27.7 306.9 310.6 310.8 310.8 310.7 307.1 310.6 310.7 310.8 310.8 310.7 310.8 310.	T.* Index Manometer Index Hanometer Index In	T.* Index Manometer Index August Index Paper Index Index Index Index Index I	T.* Index Manometer Index Manometer Index (ppm.)	T.* Index Manometer (ppm) Index Manometer (ppm) Index August Index August Index In

* Alaska Standard Time

TABLE 12: DIURNAL VARIATION OF CARBON DIOXIDE BARROW, ALASKA CARBON DIOXIDE PROJECT

					٠																					
	December	Manometer (ppm)	317.0	317.0	317.0	317.0	317.0	317.0	317.2	317.3	317.3	317.4	317.6	317.4	317.1	317.0	317.0	317.0	316.8	316.9	317.0	317.0	317.1	317.3	317.1	317.1
	Dec	Index	316.0	316.0	316.0	316.0	316.0	316.0	316.2	316.3	316.3	316.4	316.5	316.4	316.1	316.1	316.0	316.0	315.9	316.0	316.0	316.0	316.1	316.3	316.1	316.1
	November	Manometer (ppm)	316.1	316.1	316.1	316.1	316.2	316.2	316.2	316.0	316.2	316.2	316.5	316.7	316.3	316.6	316.4	316.4	316.3	316.5	316.5	316.4	316.3	316.2	316.1	316.4
	Nov	Index	315.2	315.3	315.3	315.3	315.4	315.4	315.4	315.2	315.3	315.4	315.6	315.8	315.4	315.7	315.6	315.5	315.4	315.6	315.6	315.6	315.4	315.4	315.3	315.6
	ber	Manometer (ppm)	315.1	314.9	315.1	315.0	315.1	315.0	315.2	315.1	315.3	315.0	315.2	315.2	315.0	315.0	315.0	315.1	315.1	314.9	314.9	315.1	315.0	315.2	315.0	315.0
	October	Index	314.4	314.3	314.5	314.4	314.4	314.4	314.6	314.4	314.6	314.3	314.5	314.5	314.3	314.3	314.4	314.5	314.4	314.3	314.3	314.4	314.4	314.5	314.4	314.4
1961	Month:	A. S. T.*	00-01	01-02	02~03	03-04	04-05	90-50	20-90	07-08	60-80	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24

* Alaska Standard Iime

TABLE 12: DIURNAL VARIATION OF CARBON DIOXIDE BARROW, ALASKA CARBON DIOXIDE PROJECT

	Harch	Manometer (ppm)	319.2	319.1	319.3	319.3	319.4	319.4	319.4	319.4	319.3	319.3	319.2	319.3	319.2	319.2	319.3	319.2	319.3	319.3	319.0	319.2	319.1	319.1	319.2	319.2
	묫	Index	317.8	317.8	317.9	317.9	319.0	318.0	318.0	318.0	317.9	317.9	317.8	317.9	317.8	317.8	317.9	317.8	317.9	317.9	317.6	317.8	317.7	317.8	317.8	317.8
	February	Manometer (ppm)	319.1	319.2	319.2	319.3	319.2	319.2	319.2	319.2	319.4	319.4	319.0	319.2	319.1	319.2	319.4	319.3	319.1	319.1	319.0	319.1	319.3	319.3	319.4	319.4
	Febr	Index	317.8	317.8	317.8	317.9	317.8	317.9	317.8	317.9	317.9	317.9	317.7	317.8	317.7	317.8	318.0	317.9	317.8	317.8	317.6	317.8	317.9	317.9	317.9	318.0
	ary	Manometer (ppm)	319.0	319.0	318.9	318.9	318.9	319.2	319.4	318.8	319.4	319.1	318.9	318.8	318.7	318.5	318.8	318.8	318.7	318.5	318.6	318.9	318.3	319.0	319.0	319.1
	January	Index	317.6	317.7	317.6	317.6	317.6	317.8	318.0	317.5	318.0	317.7	317.5	317.5	317.4	317.2	317.5	317.5	317.3	317.3	317.3	317.6	317.1	317.6	317.6	317.7
1962	Month:	A. S. T.*	00-01	01-02	02-03	93-04	04-05	05-06	06-07	07-03	08-03	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24

* Alaska Standard Time

TABLE 12: DIURNAL VARIATION OF CARBON DIOXIDE BARROW, ALASKA CARBON DIOXIDE PROJECT

tember	Manometer (ppm)	309.5	309.6	309.6	309.7	309.7	309.8	309.7	309.4	309.7	305.7	309.5	309.3	309.0	309.1	308.8	309.3	309.2	309.3	309.6	309.8	309.9	310.0	309.9	309.8	
Sep	Index	309.8	310.0	310.0	310.0	310.0	310.1	310.0	309.8	310.0	310.0	309.8	309.7	309.5	309.6	309.3	309.7	309.6	309.7	309.9	311.0	310.2	310.3	310.2	310.1	
gust	Manometer (ppm)	306.9	306.8	306.9	307.1	307.3	306.9	306.9	306.6	306.5	306.5	305.9	306.1	306.3	306.5	306.3	306.0	306.5	306.2	306.3	306.8	307.6	307.6	307.1	307.1	
Ψn	Index	307.7	307.7	307.7	307.9	308.1	307.7	307.8	307.5	307.4	307.4	306.9	307.1	307.3	307.4	307.2	307.0	307.4	307.2	307.2	307.6	309.8	309.4	307.9	307.9	
uly	Manometer (ppm)	312.4	312.6	313.3	312.8	312.8	312.5	312.6	312.5	312.2	312.0	312.3	312.2	311.4	311.7	311.2	311.3	311.3	311.4	311.6	311.8	311.7	311.8	311.9	312.0	
Ţ	Index	312.3	312.4	313.0	312.5	312.6	312.3	312.4	312.3	312.1	311.9	312.1	312.0	311.4	311.7	311.3	311.3	311.4	311.4	311.6	311.7	311.7	311.7	311.7	312.0	
Month:	A. S. T.*	00-01	01-02	0.7-03	03-04	04-05	90-50	06-07	07-08	0 8 -09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
	ŗ	T.* Index Manometer Index Manometer Index (ppm)	T.* Index Manometer Index Manometer Index (ppm) (ppm) (ppm) 312.4 307.7 306.9 309.8	T.* Index Manometer Index Manometer Index (ppm) (ppm) (ppm) 312.3 312.4 312.6 307.7 306.8 310.0	T.* Index Manometer Index Manometer Index (ppm) (ppm) (ppm) (307.7 306.9 310.0 313.4 312.6 307.7 306.9 310.0 313.3 307.7 306.9 310.0	T.* Index Manometer Index Manometer Index (ppm) (ppm) (ppm) 312.3 312.4 307.7 306.9 310.0 313.5 312.8 307.7 306.9 310.0 312.5 312.8 307.9 307.1 310.0	T.* Index Manometer Index Manometer Index (ppm) (ppm) (ppm) (307.7 306.9 310.0 312.4 312.6 307.7 306.9 310.0 312.5 312.8 307.1 306.9 310.0 312.5 312.8 307.1 307.3 310.0 312.6 312.8 308.1 307.3 310.0	T.* Index Manometer Index Manometer Index (ppm) (ppm) (ppm) (ppm) (ppm) (306.9 312.4 312.6 307.7 306.9 310.0 313.5 312.8 307.7 306.9 310.0 312.5 312.8 308.1 307.3 310.0 312.5 312.8 308.1 307.3 310.0 312.5 312.8 308.1 307.3 310.0 312.5 312.5 307.7 306.9 310.1	T.* Index Manometer Index Manometer (ppm)	T.* Index Manometer Index Manometer Index (ppm)	T.* Index Manometer Index Manometer Index (ppm)	T.* Index Manometer (ppm) (ppm	T.* Index Manometer (ppm) (ppm	T.* Index Manometer Index Manometer Index (ppm)	T.* Index Manometer Index Manometer Index (ppm)	T.* Index Manometer Index Manometer Index (ppm)	T.* Index Manometer Index Manometer Index (ppm) 312.3 312.4 307.7 306.9 309.8 312.6 313.3 307.7 306.9 310.0 312.5 312.8 307.7 306.9 310.0 312.5 312.8 307.7 306.9 310.0 312.5 312.8 307.7 306.9 310.0 312.3 312.5 307.7 306.9 310.0 312.1 312.5 307.4 306.5 310.0 312.1 312.2 307.4 306.5 310.0 312.0 312.2 307.4 306.5 310.0 312.0 312.2 307.1 306.9 305.8 310.0 312.0 312.2 307.4 306.5 309.8 312.0 312.2 307.1 306.9 306.5 310.0 312.0 312.2 307.1 306.9 306.5 309.8 311.7 311.7 311.2 307.2 306.3 309.3 311.7 311.2 307.2 306.3 309.3 311.3 311.2 307.2 306.3 309.3	T.* Index Manometer Index Manometer Index (ppm) 312.3 312.4 307.7 306.9 309.8 310.0 312.5 312.6 307.7 306.9 310.0 312.5 312.8 307.7 306.9 310.0 312.5 312.8 307.7 306.9 310.0 312.3 312.5 307.7 306.9 310.0 312.3 312.5 307.7 306.9 310.0 312.1 312.5 307.7 306.9 310.0 312.1 312.2 307.4 306.5 310.0 312.1 312.2 307.4 306.5 309.8 312.1 312.2 307.4 306.5 309.8 312.1 312.2 307.1 306.5 309.8 312.1 312.2 307.1 306.5 309.8 312.1 312.2 307.1 306.5 309.8 312.1 311.2 307.1 306.3 309.5 311.3 311.2 307.2 306.3 309.3 311.3 311.3 311.3 307.0 306.0 309.7	T.* Index Manometer Index Manometer Index (ppm) 312.3 312.4 307.7 306.9 309.8 312.6 312.6 307.7 306.9 310.0 312.5 312.8 307.7 306.9 310.0 312.5 312.8 307.7 306.9 310.0 312.5 312.8 307.7 306.9 310.0 312.5 312.6 307.7 306.9 310.0 312.1 312.5 307.5 306.9 310.0 312.1 312.2 307.4 306.5 310.0 312.1 312.2 307.4 306.5 310.0 312.0 312.1 312.2 307.4 306.5 310.0 312.0 312.1 312.2 307.4 306.5 310.0 312.0 312.1 312.2 307.1 306.5 309.8 312.0 312.1 312.2 307.1 306.5 309.8 311.7 311.7 307.2 306.5 309.8 311.7 311.7 307.2 306.5 309.8 311.7 311.7 307.2 306.5 309.7 311.4 311.3 311.3 307.0 306.5 309.5 311.4 311.3 307.4 306.5 309.5 311.4 311.3 307.4 306.5 309.5 311.4 311.3 307.4 306.5 309.6	T.* Index Manometer Index Hanometer (ppm) 312.3 312.4 307.7 306.9 309.8 312.6 312.6 307.7 306.9 310.0 312.5 312.8 307.7 306.9 310.0 312.5 312.8 307.7 306.9 310.0 312.6 312.8 307.7 306.9 310.0 312.6 312.8 307.7 306.9 310.0 312.4 312.5 307.7 306.9 310.0 312.4 312.5 307.7 306.9 310.0 312.4 312.5 307.4 306.5 310.0 312.1 312.2 307.4 306.5 310.0 312.1 312.2 307.4 306.5 309.8 312.0 311.7 311.7 307.2 306.3 309.7 311.3 311.7 307.2 306.3 306.5 309.7 311.4 311.3 307.2 306.5 309.7 311.4 311.3 307.2 306.5 309.7 311.4 311.3 311.4 307.2 306.5 309.7 311.4 311.3 311.4 307.2 306.5 309.7 311.4 311.3 311.4 307.2 306.5 309.7 311.4 311.3 311.4 307.2 306.5 309.7 311.4 311.3 311.4 307.2 306.5 309.7	T.* Index Manometer Index Manometer (ppm) 312.3 312.4 307.7 306.9 309.8 312.6 312.6 307.7 306.9 310.0 312.5 312.6 307.7 306.9 310.0 312.5 312.6 307.7 306.9 310.0 312.5 312.6 307.7 306.9 310.0 312.6 312.5 307.7 306.9 310.0 312.1 312.5 307.7 306.9 310.0 312.1 312.5 307.7 306.9 310.0 312.1 312.2 307.4 306.5 310.0 312.1 312.2 307.4 306.5 310.0 312.1 312.2 307.4 306.5 310.0 312.1 312.2 307.4 306.5 309.8 312.0 312.1 312.2 307.4 306.5 309.8 312.0 311.7 311.7 307.4 306.5 309.7 311.3 311.2 307.4 306.5 306.3 309.7 311.4 311.2 307.2 306.5 306.5 309.7 311.4 311.4 307.2 306.3 309.7 311.6 311.6 307.2 306.3 309.9 311.6 311.6 311.6 307.2 306.3 309.9	T.* Index Manometer Index Hanometer (ppm)	T.* Index Manometer (ppm) (ppm	T.* Index Manometer Index (ppm) 1312.3 312.4 307.7 306.9 309.8 312.6 312.6 307.7 306.9 310.0 312.5 312.6 307.7 306.9 310.0 312.5 312.8 307.7 306.9 310.0 312.5 312.8 307.7 306.9 310.0 312.4 312.5 307.7 306.9 310.0 312.1 312.5 307.7 306.9 310.0 312.1 312.2 307.7 306.9 310.0 312.1 312.2 307.4 306.5 310.0 312.1 312.2 307.4 306.5 310.0 310.0 312.1 312.2 307.4 306.5 310.0 310.0 312.0 310.7 306.9 309.8 310.0 310.7 306.9 309.8 310.0 310.0 310.0 310.0 310.0 307.1 306.3 309.8 310.0 307.1 306.3 309.7 310.0 306.0 309.7 310.1 310.1 310.2 307.2 306.5 309.7 310.0 310.6 310.7 310.7 310.8 307.2 306.3 307.6 310.0 310.7 310.7 310.7 310.8 307.6 310.0 310.3 310.7 31	T.* Index Manometer Index Manometer Index (ppm.) 312.3 312.4 307.7 306.9 310.0 312.4 312.6 307.7 306.9 310.0 312.5 312.8 307.7 306.9 310.0 312.5 312.8 307.7 306.9 310.0 312.1 312.5 307.7 306.9 310.0 312.3 312.5 307.7 306.9 310.0 312.4 312.6 307.7 306.9 310.0 312.1 312.2 307.4 306.5 310.0 312.1 312.2 307.4 306.5 310.0 312.1 312.2 307.4 306.5 310.0 312.1 312.2 307.4 306.5 310.0 311.4 311.7 307.2 306.5 309.7 311.4 311.7 307.2 306.5 309.7 311.4 311.7 307.2 306.3 309.7 311.7 311.8 307.6 307.6 310.2 311.7 311.7 310.9 307.6 310.2 311.7 311.7 310.9 307.6 310.2 311.7 311.7 311.9 307.9 307.1 310.2	T.* Index Manometer Index Manometer Index (ppm) 312.3 312.4 307.7 306.9 310.0 312.4 312.8 307.7 306.9 310.0 312.5 312.8 307.7 306.9 310.0 312.5 312.8 307.7 306.9 310.0 312.4 312.5 307.7 306.9 310.0 312.1 312.5 307.7 306.9 310.0 312.1 312.5 307.8 306.6 310.1 312.1 312.2 307.4 306.5 310.0 312.1 312.2 307.4 306.5 310.0 312.1 312.2 307.4 306.5 310.0 311.2 311.2 307.2 306.5 309.8 311.3 311.7 307.2 306.5 309.7 311.4 311.4 310.4 307.2 306.3 309.7 311.6 311.6 307.2 306.3 309.8 311.7 311.8 307.6 307.6 310.2 311.7 311.8 309.8 307.6 310.2 311.7 311.9 307.9 307.1 310.2 311.7 311.9 310.9 307.1 310.2 311.7 311.9 310.9 307.1 310.2 311.7 311.9 310.9 307.1 310.2 311.7 311.9 310.9 307.1 310.2

* Alaska Standard Time

TABLE 12: DIURNAL VARIATION OF CARBON DIOXIDE RADIECT

	June	Mancmeter (ppm)	318.5	318.9	318.8	318.7	318.8	318.5	318.9	318.8	318.6	318.6	318.6	318.8	318.6	318.6	318.9	318.6	318.5	318.2	318.3	318.3	318.3	318.2	318.1	318.0	
		Index	317.2	317.5	317.5	317.4	317.5	317.2	317.6	317.5	317.3	317.3	317.3	317.5	317.3	317.4	317.5	317.3	317.2	317.0	317.1	317.0	317.1	317.0	317.0	316.9	
		Manometer (ppm)	320.6	320.6	320.7	320.7	320.7	320.7	320.7	320.7	320.6	320.5	320.5	320.4	320.2	320.2	320.2	320.2	320.1	320.0	319.9	320.1	320.3	320.3	320.5	320.6	
	May	Index	318.9	318.9	319.0	319.1	319.0	319.1	319.0	319.0	319.0	318.9	318.9	318.8	318.7	318.6	318.6	318.6	318.6	318.4	318.4	318.6	318.8	318.7	318.9	319.0	
	April	Manometer (ppm)	319.4	319,4	319.5	319.5	319.5	319.6	319.6	319.7	319.5	319.3	319.5	319.5	319.4	319.4	319.3	319.4	319.2	319.1	319.0	319.3	319.5	319,6	319.6	319.5	
	A	Index	318.0	318.0	318.0	318.1	318.1	318.1	318.2	318.2	318.0	318.0	318.1	318.0	318.0	317.9	317.9	318.0	317.8	317.7	317.7	317.9	318.1	318.1	318.2	318.0	
1962	Month:	A. S. T.*	00-01	01-02	02-03	03-04	04-05	90-50	06-07	07-08	60-80	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	

* Alaska Standard Time

TABLE 12: DIURNAL VARIATION OF CARBON DIOXIDE BARROW, ALASKA CARBON DIOXIDE PROJECT

	December	Manometer (ppm)	318.5	318.4	318.4	318.5	318.6	318.5	318.4	318.4	318.5	318.4	318.3	318.1	313.3	318.5	318.4	318.1	318.0	318.2	318.1	318.3	318.4	318.6	318.5	318.5
	Dec	Index	317.2	317.2	317.1	317.2	317.3	317.3	317.2	317.2	317.2	317.1	317.1	317.0	317.1	317.2	317.1	316.9	316.9	317.0	316.9	317.1	317.2	317.2	317.3	317.2
	November	Manometer (ppm)	316.9	316.9	317.0	317.0	317.0	317.0	317.0	316.9	317.0	316.9	316.9	316.7	316.6	316.7	316.6	316.5	316.6	316.8	316.8	316.9	317.0	317.1	316.9	316.8
	Nov	Index	315.9	315.9	316.0	316.0	316.0	315.0	316.0	315.9	316.0	316.0	315.9	315.8	315.6	315.8	315.7	315.6	315.7	315.8	315.8	315.9	316.0	316.1	315.9	315.8
	tober	Manometer (ppm)	313.0	313.0	313.0	313.0	313.2	313.3	313.2	312.9	313.1	313.0	313.3	313.3	312.9	313.5	313.6	313.6	313.5	313.2	313.1	313.3	313.2	313.3	313.4	313.3
	Octo	Index	317.8	312.8	312.8	312.8	312.9	313.0	312.9	312.7	312.8	312.7	312.9	312.9	312.6	313.2	313.2	313.2	313.2	312.9	312.8	312.9	312.9	313.0	313.1	313.0
1962	Month:	A. S. T.*	10-00	00-10	02-03	03-07	04-05	95-06	06-07	07-08	60-80	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24

* Alaska Standard Time

TABLE 12: DIURNAL VARIATION OF CARBON DIOXIDE BARROW, ALASKA CARBON DIOXIDE PROJECT

March	Manometer (ppm)		321.2	321.4	321.4	321.3		321.3	321.2	321.3	321.4	321.3	2011	5.4.5	321.4	321.3	321.1	321.2	11110	7.775	321.1	321.5	321.1	320.9	1500	321.1	321.1	321.2	321.3	321 3	2.437	
	Index		319.5	319.6	119 6	2 0 1	0.5.0	319.5	319.5	319.5	319.6	310 6	317.0	319.6	319.6	319.5	319.4	9 6 7 6	519.5	319.4	319.4	319.7	7 012	1.0.0	319.5	319.4	319.4	219 5	0.010	519.5	219.0	
February	Manometer	(add)	320.5	320 6	0.020	320.0	320.6	320.5	320.5	320 5	0.020	340.5	320.6	320.5	320.5	320 5	2.000	3.0.2	320.4	320.6	320.4	2002	7.040	320.3	320.4	320.6	320-6	9 000	320.3	320.5	320.5	
Feb	Index		6	310.9	319.0	319.0	319.0	218 9	010	2.010	318.9	318.9	319.0	318.9	0 010	210.7	518.9	318.8	318.8	314.0	9 9 6 6	0.010	318.8	318.8	318.8	0.010	0.616	319.0	318.9	316.9	318.8	
ļ	Ary Ma	(mda)	•	319.0	319.2	319.2	319.2	21010	319.3	319.3	319.3	319.2	319.2	1:010	1.616	319.0	319.0	319.2	110.2	2.010	1.516	319.1	319.0	319.1	1 010	1,616	319.1	319.1	319.2	319.2	310 3	
•	Index			317.7	317.8	217 8	0.00	31/.8	317.9	317.9	317.9	317.8		31/.9	317.8	317.6	317.6	217 8	0.110	317.8	317.7	317.7	317.7	317 7	77.70	317.7	317.7	317.7	317 B	217 8	7.1.0	311.3
1963	Month: A. S. T.*	1		00-01	01-02	20 00	50-70	03-04	04-05	05-06	06-07	000	801/0	08-00	07-60	10-11	11-12	11 11	17-71	13-14	14-15	15-16	16-17	71.01	1/~18	18-19	19-20	20-21	40.00	77-17	57-77	23-24

* Alaska Standard Time

DIURNAL VARIATION OF CARBON DIOXIDE BARROW, ALASKA CARBON DIOXIDE PROJECT TABLE 12:

	April	HAV	Δ		June
X.	Manoweter (pro)	\$ \$ \$0.000 pc.	Marioemter (ppm)	Index	Manosector (pps)
•	7 026	339.2	320.9	317.4	338.7
(·	320.5	Ų.	320.9	317.4	218.7
Ε,	320.6	61) 61 73	320.9	317.5	318.8
71	20.6	£ 3.	321.0	317.4	338.7
. ,	379.6	519.3	321.0	317.5	318.8
<i>?</i> '	320.7	323.3	321.0	317.5	318.8
	326.7	319.3	370.3	317.5	318.8
	320.6	E. 2. 3.	573.0	317.6	318.5
	320.7	310.4	321.1	337.6	0.615
•	20.6	3:9.4	321.2	317.8	3.9.2
ተገ	320.5	319.5	323.2	317.4	0,617
. `	220.4	319.4	1.13.1	317.7	310.1
,1	120.5	319.4	221.3	3:7.6	318.9
ţ-1	320,8	319.5	321.2	317.7	319.6
. ,	3.035	319. F	321.2	317,7	319.0
	370.5	539.3	371.0	317.6	0.0E
-7	320.7	319.3	325.9	117.6	318.9
1	3.20.4	119.3	325 0	317.5	338.8
	320.3	319.5	373.0	317.5	80° 34.50°
۳.	3.0.0	319,3	0.450	317.6	318.4
(~)	379.4	310,3	374.0	317.5	318.8
	526.2	1:9.3	0.45	317.4	318.7
	2.11.	3,3,2	0.350	317.4	314.7
1000					

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TABLE 12: DIURNAL VARIATION OF GREEN DIORIDE BARROW, ALASKA CAREON L'OXIDE PROJECT

5 .	Manameter (ppm)	311.2	311.1	311.0	310.8	311.0	310.9	31.0.8	310.8	310.8	310.7	310.8	310.9	310.9	310.9	310.9	310.7	310.7	310.6	310.7	310.7	310.9	311.2	310.8	311.2
review of	Index	2) - C-4	311.2	311.1	310.0	311.1	311.0	310.9	310.9	311.0	310.9	310.9	311.0	311.0	311.0	311.0	310.9	310.8	310.8	310 8	310.8	311.0	311.2	310.3	311.3
يد ق غ	Manometer (ppm)	309.5	309.7	309.8	309.9	310.0	309.9	309.8	309.6	309.6	309.8	309.8	309.7	309.6	309.5	309.4	30%,7	309.3	309.3	309.2	309.2	309.1	209.3	309.4	309.4
7 a ∪ 2 v v • 4	Index	309.9	310.0	310.1	310.2	310.3	310.2	310.1	309.9	310.0	310.1	310.1	310.0	309.9	309.9	309.8	310.0	309.7	309.7	309.6	309.6	309.5	309.7	309.7	309.8
	Manometer (ppm)	7.716	314.2	314.2	314.1	314.1	313.9	313.9	313.9	314.1	314.1	314.3	314.1	314.3	314.2	314.6	313.9	314.1	313.8	314.1	314.1	314.1	314.1	314.1	314.0
;	Index	313.9	313.8	313.7	313.7	313.6	313.5	313.5	313.5	313.7	313.6	313.8	313.6	313.8	313.7	314.0	313.5	313.6	213.4	313.7	313.6	313.6	313.7	313.6	313.6
1963	A. S. T.*	00-03	01-02	02-03	03-04	04-05	05-06	20-90	07-08	60-80	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24

* Alaska Standard Time

TABLE12a: DIURNAL VARIATION OF CARBON DIOXIDE BARROW, ALASKA CARBON DIOXIDE PROJECT

	İ																									
	1	Manometer (ppm)	323.7	323.7	323.7	323.7	323.7	323.8	323.8	323.7	323.7	323.6	323.8	323.8	323.7	323.7	323.7	323.7	323.7	323.7	323.7	323.9	324.9	324.1	324.1	323.9
	March	Index	321.5	321.5	321.5	321.5	321.5	321.6	321.6	321.5	321.5	321.4	321.6	321.6	321.5	321.5	321.5	371.5	321.5	321.5	321.5	321.7	321.7	321.8	321.8	321.7
		Manometer (ppm)	323.4	323.3	323.6	323.7	323.7	323.8	324.1	323.8	324.2	324.2	323.2	323.0	323.1	322.2	322.3	322.6	323.3	323.2	323.0	323.1	323.0	323.0	323.3	322.8
	February	Index	321.3	321.2	321.4	321.5	321.5	321.6	321.8	321.6	321.9	321.9	321.1	320.9	321.0	320.3	320.4	320.6	321.2	321.1	320.9	321.0	320.9	320.9	321.2	320.8
		Manometer (ppm)	322.3	322.2	322.1	322.1	322.5	322.2	322.0	321.7	322.2	322.1	322.3	322.1	322.2	322.3	322.5	322.3	322.5	322.5	322.3	322.5	322.5	322.5	322.6	322.6
	January	Index	320.4	320.3	320.2	320.2	320.5	320.3	320.1	319.9	320.3	320.2	320.4	320.2	320.3	320.4	320.5	320.4	320.5	320.5	320.4	320.5	320.5	320.5	320.6	320.6
1965	Month:	A. S. T.	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	60-80	01-60	16-11	11-12	12-33	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
			l																							

* Alaska Standard Time

TABLE 12a: DIURNAL VARIATION OF CARBON DIOXIDE PROJECT BARROW, ALASKA CARBON DIOXIDE PROJECT

	June	Manometer (pom)	321.5	321.3	321.3	321.1	321.7	321.6	321.4	321.1	321.3	321.3	321.4	321.3	321.1	321.1	321.0	320.9	320.8	320.9	320.8	320.9	321.0	320.9	320.9	320.5
	J.	Index	319.7	319.5	319.5	319.4	319.9	319.8	319.6	319.4	319.5	319.5	319.6	319.5	319.4	319.4	319.3	319.2	319.1	319.2	319.1	319.2	319.3	319.2	319.2	319.2
	γ	Manometer (ppm)	324.9	324.9	324.8	324.9	324.8	324.7	324.7	324.7	324.7	324.8	374.8	324.8	324.9	324.7	324.7	325.0	324.8	324.9	324.9	324.7	324.9	324.9	324.9	325.0
	May	Index	322.5	322.5	322.4	322.5	322.4	322.3	322.3	322.3	322.3	322.4	322.4	322.4	322.5	322.3	322.3	322.6	322.4	322.5	327.5	322.3	322.5	322.5	322.5	322.6
	April	Manometer (ppm)	323.9	324.1	323.9	323.8	323.9	323.7	323.8	323.8	323.7	323.7	323.7	323.8	323.7	323.7	323.7	323.7	323.9	323.9	323.9	323.8	323.9	323.8	323.9	324.1
	Y	Index	321.7	321.8	321.7	321.6	321.7	321.5	321.6	321.6	321.5	321.5	321.5	321.6	321.5	321.5	321.5	321.5	321.7	321.7	321.7	321.6	321.7	321.6	321.7	321.8
1965	Month:	A. G. H.	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	60-80	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17 18	18-19	19-20	20-21	2122	22-23	23-24

* Alaska Standard Time

TIBLE12a: DIURNAL VARIATION OF CARBON DIOXIDE BARROW, ALASKA CARBON DIOXIDE PROJECT

	September	Manometer (ppm)	310.9	310.8	310.9	310.9	311.0	310.8	310.8	310.8	310.8	310.8	310.8	310.5	310.5	310.6	310.4	310.4	310.5	310,5	310.6	310.6	310.6	310.9	310.8	310.8
	Sept	Index	311.0	310.9	311.0	311.0	311.1	310.9	310.9	310.9	310.9	310.9	310.9	310.7	310.7	310.8	310.6	310.6	310.7	310.7	310.8	310.8	310.8	311.0	310.9	310.9
	st	Manometer (ppm)	310.9	311.1	311.1	311.4	311.3	311.0	310.6	310.3	310.0	309.7	309.6	309.4	309.4	309.4	309.6	309.6	309.6	309.6	309.7	309.9	310.0	310.3	310.6	310.8
	August	Index	311.0	311.2	311.2	311.4	311.3	311.1	310.8	310.5	310.3	310.0	309.9	309.8	305.8	309.8	309.9	309.9	309.9	309.9	310.0	310.2	310.3	310.5	310.8	310.9
	ly .	Manometer (ppm)	316.4	316.1	316.0	315.9	315.8	315.6	315.8	315.6	315.8	315.6	315.5	315.5	315.5	315.5	315.4	315.6	315,3	315.5	315.4	315.4	315.5	315.5	315.6	315.8
	July	Index	315.5	315.3	315.2	315.1	315.0	314.9	315.0	314.9	315.0	314.9	314.8	314.8	314.8	314.8	314.7	314.9	314.6	314.3	314.7	314.7	314.8	314.8	314.9	315.0
1965	Month:	A. S. T.*	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-15	18-19	19-20	20-21	21-22	22-23	23-24
													-	1	53	-										

* Alaska Standard Iime

TABLE 124: DIURNAL VARIATION OF CARBON DIOXIDE BARROW, ALASKA CARBON DIOXIDE PROJECT

1965

Index Manameter (ppm) 316.0 316.1 316.1 316.1 315.9 315.9 315.9 315.9 315.9 316.9 315.8 316.9 315.8 316.7 315.8 316.7 315.8 316.7 315.8 316.7 315.8 316.7 315.8 316.7 315.9 316.7 316.0 317.0 316.0 317.0 316.0 317.0 316.0 317.0 316.1 316.1 317.1

* Alaska Standard Time

TABLE12a: DIURNAL YARIATION OF CARBON DIOXIDE BARROW, ALASKA CARBON DIOXIDE PROJECT

		Hanometer (ppm)	1.3	1.3	1.3	1.1	1.3	1.3	1.3	1.1	1.3	1.3	1.4	1.3	1.3	1.4	1.1	1.1	1.4	1.4	1.4	1.4	1.3	1.3	1.3	321.3
	March	Mano (p	32	32.	32	32.	32	32	32.	32.	32.	32.	32.	32.	32	32.	32.	32.	32.	32.	32.	32.	32.	32.	32.	32.
		Index	319.5	319.5	319.5	319.4	319.5	319.5	319.5	319.4	319.5	319.5	319.6	319.5	319.5	319.6	319.4	319.4	319.6	319.6	319.6	319.6	319.5	319.5	319.5	319.5
	Pebruary	Manometer (ppm)	320.8	320.9	320.8	320.8	320.8	320.6	320.8	320.6	320.9	320.8	320.6	320.6	320.8	320.8	320.8	320.9	320.9	320.9	321.1	320.9	320.9	320.9	320.8	320.6
	Pebr	Index	319.1	319.2	319.1	319.1	319.1	319.0	319.1	319.0	319.2	319.1	319.0	319.0	319.1	319.1	319.1	319.2	313.2	319.2	319.4	319.2	319.2	319.2	319.1	319.0
	January	Hanometer (ppm)	321.1	321.0	321.0	321.1	321.0	321.1	321.1	321.1	320.9	321.1	$32_{1}.0$	321.1	320.9	321.1	321.3	321.1	321.1	321.1	321.0	321.0	321.1		321.1	321.0
	Ja	Index	319.4	319.3	319.3	319.4	319.3	319.4	319.4	319.4	319.2	319.4	319.3	319.4	319.2	319.4	319.5	319.4	319.4	319.4	319.3	319.3	319.4	319.3	319.4	319.3
1966	Month:	A. S. T.*	00-01	01-02	02-03	03-04	04-05	05-06	0-90	07-08	60-80	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23–24

* Alaska Standard Time

TABLEL2a: DIURNAL VARIATION OF CARRON DIOXIDE BARROW, ALASKA CARBON DIOXIDE PROJECT

		eter 1)	6.	بو	. و	e,	ú	7	m	ຕຸ	7	7	.2	7	-	Q.	0	0	ف	3.	6,	0	0	.2	ν,	m,
	June	x Manometer (ppm)																							5 322.5	
		Index	320.	320.	320.	320.	320.	326.	320.	320.	320.	320.	320.	320.	320.	320.	320.	320.	320.	320.	320.	320.	320.	320.	320.5	320.
	May	Manometer (ppm)	324.5	324.7	324.7	324.7	324.4	324.5	324.5	324.5	324.5	324.5	324.4	324.3	324.4	324.5	324.4	324.5	324.3	324.3	324.7	324	324.5	324.5	324.7	324.4
	Σ.	Index	322.2	322.3	322.3	322.3	322.1	322.2	322.2	322.2	322.2	322.2	322.1	322.0	322.1	322.2	322.1	322.2	322.0	322.0	322.3	322.1	322.2	322.2	322.3	322.1
	April	Manometer (ppm)	322.2	322.2	322,1	322.1	322.0	322.1	322.1	322.1	322.1	322.1	322.2	322.2	322.2	322.2	322.2	322.2	322.3	322.2	322.2	322.1	322.1	322.3	322.1	322.2
		Index	320.3	320.3	320.2	320.2	320.1	320.2	320.2	320.2	320.2	320.2	320.3	320.3	320.3	320.3	320.3	320.3	320.4	320.3	320.3	320.2	320.2	320.4	320.2	320.3
1966	Month:	A. S. T.	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	60-80	09-10	10-11	11-12	12-13	13-14	1415	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24

* Alaska Standard Time

* Alaska Standard Time

TABLE 128: DIURNAL VARIATION OF CARBON DIOXIDE BARROW, ALASKA CARBON DIOXIDE PROJECT

	ber	Manometer (ppm)	312.1	312.2	312.0	312.1	312.4	312.4	312.4	312.4	312.2	312.2	312.4	312.4	312.4	312.1	312.2	312.0	312.0	312.0	311.9	311.9	312.0	312.1	312.2	312.4
	September	Index	312.0	312.1	311.9	312.0	312.2	312.2	312.2	312.2	312.1	312.1	312.2	312.2	312.2	312.0	312.1	311.9	311.9	311.9	311.8	311.8	311.9	312.0	312.1	312.2
	9¢	Manometer (ppm)	311.5	311.5	311.4	311.1	311.0	310.9	310.9	311.0	310.9	310.9	310.8	310.8	310.8	310.8	310.8	310.8	310.8	310.6	310.8	310.9	311.1	311.5	311.5	311.5
	August	Index	311.5	311.5	311.4	311.2	311.1	311.0	311.0	311.1	311.0	311.0	310.9	310.9	310.9	310.9	310.9	310.9	310.9	310.8	310.9	311.0	311.2	311.5	311.5	311.5
	ly.	Manometer (ppm)	316.1	31.6.0	3).5.8	315.5	31.5.4	315.2	315.0	315.0	314.9	314.8	314.8	314.8	314.7	314.7	314.7	314.8	314.7	314.9	315.2	31.5.5	315.6	315.9	316.0	315.9
	July	Index	315.3	315.2	315.0	314.8	314.7	314.5	314.4	314.4	314.3	314.2	314.2	314.2	314.1	314.1	314.1	314.2	314.1	314.3	314.5	314.8	314.9	315.1	315.2	315.1
1966	Month:	A. S. T.	00-01	01-02	02-03	03-04	04-05	90-0	06-07	07-08	60-80	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
												_	. 1	5.7	_											

TABLE128: DIURNAL VARIATION OF CARBON DIOXIDE BARROW, ALASKA CARPON DIOXIDE PROJECT

315.4 315.4 315.4 315.5 315.5	(mdd)	Index	av Manometer	Tudex Ma	Manometer
315.4 315.4 315.4 315.6 315.6	316.1	Timex	(mdd)	Times	(mdd)
315.4 315.4 315.5 315.6 315.6	***	317.6	318.9	319.5	321.3
315.4 315.5 315.6 315.5	316.3	317.7	319.1	319.6	321.4
315.5 315.6 315.5	316.3	317.6	318.9	319.5	321.3
315.6 315.5	316.4	317.7	319.1	319.5	321.3
315.5	316.5	317.7	319.1	319.5	321.3
	316.4	317.6	318.9	319.5	321.3
315.5	316.4	317.6	318.9	319.5	321.3
315.6	316.5	317.6	318.9	319.5	321.3
315.5	316.4	317.7	319.1	319.5	321.3
315.4	316.3	317.7	319.1	319.5	321.3
315.4	316.3	317.6	318.9	319.5	321.3
315.3	316.1	317.7	319.1	319.6	321.4
315.2	316.0	317.7	319.1	319.6	321.4
315.3	316.1	317.8	319.2	319.7	321.5
315.3	316.1	317.8	319.2	319.6	221.4
315.3	316.1	317.9	319.3	319.5	321.3
315.3	316.1	317.8	319.2	319.6	321.4
315.3	316.1	317.8	319.2	319.6	321.4
315.4	316.3	317.7	319.1	319.4	321.1
315.4	316.3	317.8	319.2	319.5	321.3
315.5	316.4	317.7	319.1	319.5	321.3
315.5	316.4	317.8	319.2	319.6	321.4
315.5	316.4	317.8	319.2	319.5	321.3
315.6	316.5	317.8	319.2	319.5	321.3

* Alaska Standard Time

TABLE12a: DIURNAL VARIATION OF CARBON DIGKIDE BARROW, ALASKA CARBON DIOKIDE PROJECT

	March	Manometer (ppm)	323.6	324.1	323.3	323.8	323.8	323.7	323.9	323.2	322.6	323.6	323.7	323.4	323.1	323.3	323.2	323.7	323.7	323.3	323.2	323.6	323.0	323.7	323.1	323.3
	X	Index	321.4	321.8	321.2	321.6	321.6	321.5	321.7	321.1	320.6	321.4	321.5	321.3	321.0	321.2	321.1	321.5	321.5	321.2	321.1	321.4	320.9	321.5	321.0	321.2
	Jary	Manometer (ppm)	322.3	322.3	322.2	322.3	322.2	322.3	322.3	322.5	322.5	322.2	322.2	322.3	322.2	322.2	322.3	322.2	322.3	322.3	322.5	322.5	322.3	322.5	322.5	322.3
	Pebruary	Index	320.4	320.4	320.3	320.4	320.3	320.4	320.4	320.5	320.5	320.3	320.3	320.4	320.3	320.3	320.4	320.3	320.4	320.4	320.5	320.5	320.4	320.5	320,5	320.4
	January	Manometer (ppm)	321.7	321.7	321.7	321.7	321.9	322.0	321.9	321.9	321.9	321.9	321.7	321.7	321.7	321.7	321.9	321.6	321.6	321.7	321.9	321.7	321.7	321.9	321.7	321.7
	Jan	Index	319.9	319.9	319.9	319.9	320.0	320.1	320.0	320.0	320.0	320.0	319.9	319.9	319.9	319.9	320.0	319.8	319.8	319.9	320.0	319.9	319.9	320.0	319.9	319.9
1967	Month:	A. S. T.	00-01	01-02	02-03	03-04	04-05	05-06	20-90	67-08	60-80	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
		Ī	Ī										_													

*Alaska Standard Time

TABLE12a: DIURNAL VARIATION OF CARBON DIOXIDE BARROW, ALASKA CARBON DIOXIDE PROJECT

	June	Manameter (ppm)	322.1	322.3	322.1	322.0	322.0	322.0	322.0	321.9	322.1	322,0	322.1	322,1	322.1	322.1	322.2	322.0	322.7	322.5	322.2	322.1	322.1	322.1	322.1	322.1
	J	Index	320.2	320.4	320.2	320.1	320.1	320.1	320.1	320.0	320.2	320.1	320.2	320.2	320.2	320.2	320.3	320.1	320.7	320.5	320.3	320.2	320.2	320.2	320.2	320.2
	ly.	Manometer (ppm)	324.4	324.3	324.4	324.3	324.4	324.3	324.4	324.4	324.4	324.4	324.2	324.3	324.2	324.1	324.1	324.1	324.1	324.1	324.1	324.2	324.2	324.3	324.3	324.4
	May	Index	322.1	322.0	322.1	322.0	322.1	322.0	322.1	322.1	322.1	322.1	321.9	322.0	321.9	321.8	321.8	321.8	321.8	321.8	321.8	321.9	321.9	322.C	322.0	322.1
	Apr 11	Mancmeter (ppm)	322.6	322.7	322.3	322.3	322.2	322.5	322.7	322.5	322.5	322.7	322.1	322.7	322.2	322.7	322.6	322.7	323.0	323.0	322.7	322.8	322.3	322.8	322.0	323.2
	₽.	Index	320.6	320.7	320.4	320.4	120.3	320.5	320.7	320.5	320.6	320.7	320.2	320.7	320.3	320.7	320.6	320.7	320.9	320.9	320.7	320.8	320.4	320.8	320.1	321.1
1967	Month:	A. S. T.	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-00	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24

* Alaska Standard Time

TABLEL2a: DIURNAL VARIATION OF CARBON DIOXIDE BARROW, ALASKA CARBON DIOXIDE PPOJECT

	ber	Menometer (pre)	312.5	312.5	312.4	332.4	312.4	337.4	312.3	312.4	312.A	322.4	312.4	312.4	312.2	2:2.2	312.7	2.3.4	312.5	312.5	312.5	112.6	112.5	37.27.6	312.5	8.2.5 8.
	September	Index	312.3	M. Cal	312.2	312.2	St. Call	14. 24.	312 3	17 C 4 6	11.7.2		(% 24' 14' 1		417.8	1. 1. 1.	217.3	THE PERSON	291 1915 1915	# 1 X # 5	17. TA 1881	3.514	7 62	T was	2 2 3	312.3
	August	Mancmeter (ppm)	313.1	313.2	313.1	313.6	313.7	313.7	313.5	313.3	313.1	312.8	312.8	312.8	312.8	313.0	312.8	312.8	312.7	312.5	312.4	312.5	312.6	312.8	313.0	312.8
	Aus	Index	312.8	312.9	312.8	313.2	313.3	313.3	313.1	313.0	312.8	312.6	312.6	312.6	312.6	312.7	312.6	312.6	312.5	312.3	312.2	312.3	312.4	312.6	312.7	312.6
	July	Manometer (ppm)	317.4	317.4	317.5	317.2	317.1	316.9	316.6	316.4	316.5	316.5	316.4	316.1	316.1	316.9	315.9	316.1	316.1	316.1	316.3	316.4	316.6	316.6	316.7	317.0
	Ju	Index	316.3	316.3	316.4	316.2	316.1	315.9	315.7	315.5	315.6	315.6	315.5	315.3	315.3	315.1	315.1	315.3	315.3	315.3	315.4	3)5.5	315.7	315.7	315.8	316.0
1967	Month:	A. S. T.*	00-01	01-02	02-03	03-04	04-05	90-50	06-07	07-08	60-80	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24

* Alaska Standard Time

TABLE 12b: AVERAGE DIURNAL VART TON OF CARRON DIOXIDE, 1961 - 1967

A.S.T.	Jan	qəკ	Mar	Apr	Мау	June	July	Aug	Sept	0ct	Nev	Dec
10-60	320.6	321.3	321.8	321.7	323.1	320.6	314.6	309.8	311.1	315.3	317.7	318.9
01-02	320.6	321.3	.521.9	321.8	323,1	320.8	314.5	309.9	311.1	315.4	317.7	319.0
02-03	9.0.2	321.3	321.8	3.1.7	323.1	320.7	314.7	309.9	311.1	315.4	317.7	318.9
03-64	37.).6	321.3	321.8	321.7	323.1	320.6	314.4	310.2	311.1	315.4	317.8	318.9
04-05	320.7	321.3	321.0	321.6	323.1	320.7	314.4	310.3	311.2	315.4	317.8	319.0
05-06	320.8	321.3	321.	321.	323.0	320.6	314.2	310.1	311.2	315.4	317.8	319.0
06-07	320.7	321.4	321.9	321.8	323.1	320.7	314.2	310.1	311.1	315.4	317.7	319.0
07-08	320.5	321.3	321.8	321.8	323.1	320.6	314.1	309.9	311.1	315.3	317.6	319.0
08-09	320.7	321.5	321.7	321.7	323.1	320.6	314	309.7	311.1	315.4	317.8	319.1
09-10	320.7	321.4	321.8	321.7	323.1	320.7	314 0	309.5	311.2	315.3	317.7	319.1
10-11	320.5	321.1	321.3	321.6	323.1	320.7	313.9	309.4	311.1	315.3	317.8	319.1
11-12	320.5	321.1	321.8	321.7	323.0	320.7	313.9	309.3	311,0	315.3	317.9	319.0
12-13	320.6	221.1	321.7	321.6	323.0	320.6	313.8	309.2	310.5	315.2	317.7	318.9
13-14	320.6	321.0	321.8	321.8	322.9	320.6	313.8	309.3	310.9	315.4	317.9	319.1
14-15	320.7	321.1	321.7	521.8	322.9	320.6	313.7	309.3	310.8	315.4	317.8	318.9
15-16	320,6	321.1	321.8	321.7	323.0	320.5	313.7	309.3	310.9	315.4	317.7	318.9
16-17	320.6	321.2	321.9	321.8	322.9	320.6	313.7	309.3	310.9	315.4	317.7	318.8
17-18	320.6	321.2	321.8	321.7	322.9	520.5	313.5	309.1	310.9	315.3	317.8	318.8
18-19	320.6	321.2	321.6	321.6	322.9	320.4	313.7	309.2	310.9	315.4	317.8	318.8
19-20	320.6	321.3	321.8	321.7	322.9	320.4	313.8	309.3	311.0	315.5	317.9	318.9
20-21	320.5	321.2	321.7	321.6	323.0	320.4	313.9	309.6	311.0	315.4	317.9	319.0
21-22	320.7	321.2	321.9	321.8	323.0	320.4	314.1	309.7	311.1	315.0	317.9	319.1
22-23	320.7	321.3	321.8	321.6	323.1	320.5	314.1	309.7	311.1	315.4	317.9	319.0
23-24	320.7	321.1	321.8	321.8	323.0	320.4	314.1	309.7	311.2	315.5	317.9	319.0

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- Pales, J.C. and C.D. Keeling, The concentration of atmospheric carbon dioxide in the Hawaiian Islands, <u>J. Geophys. Res.</u>, 70 6053-6076, 1965.

APPENDIX 1

The following is a list of publications and reports based on the atmospheric carbon dioxide program in the Arctic and at the University of Washington.

- Kelley, J.J., Jr., An Analysis of Carbon Dioxide in the Arctic Atmosphere at Barrow, Alaska, <u>Technical Report</u>, University of Washington, Department of Atmospheric Sciences, ONR 477(24), 1964.
- Kelley, J.J., Jr. and D.F. Weaver, Carbon Dioxide and Ozone in the Arctic Atmosphere, <u>Proceedings of the 16th Alaskan Science</u> <u>Conference</u>, AAAS, 1965.
- Kelley, J.J., Jr. and E. LaChapelle, Atmospheric Carbon Dioxide Variations on Mt. Olympus, <u>J. Geophys. Res</u>, Vol. 71, No. 8, 1966.
- 4. Kelley, J.J., Jr., An Analysis of Carbon Dioxide in the Arctic Atmosphere, Report 2, <u>Technical Report</u>, ONR 477 (24), Department of Atmospheric Sciences, University of Washington, Seattle Washington.
- 5. Kelley, J.J., Jr., Carbon Dioxide in the Surface Waters of Puget Sound, <u>Final Report</u>, prepared under Contract Nonr 477(24), Department of Atmospheric Sciences, University of Washington, Seattle, 1966.

- 6. Kelley, J.J., Jr. and S.M. Hodge, Measurements of the Chemical Constitution of the Atmosphere at the Blue Glacier Field Station, Mount Olympus, Washington, Summer, 1966, <u>Scientific Report</u>, Department of Atmoshperic Sciences, University of Washington, Seattle, 1967.
- 7. Kelley, J.J., Ji., Carbon Dioxide and Ozone Studies in the Arctic Atmosphere, Proc. of the ONR-AINA Arctic Drifting Stations

 Symposium, 1967.
- 8. Kelley, J.J., Jr., D. Weaver, and B. Smith, The Variation of Carbon Dioxide under the Snow in the Arctic, <u>ECOLOGY</u>, 49(2), pp 358-361, 1968.
- 9. Kelley, J.J., Jr., Carbon Dioxide in the Sea Water under the Arctic Ice, NATURE, Vol 218, No 5144, pp 862-864, June, 1968.
- 10. Kelley, J.J., Jr., Atmospheric Trace Gases and Suspended Particulate Matter on Mt. Olympus, Olympic National Park, Washington, J. Geophys. Res. (in press), 1968.
- 11. Kelley, J.J., Jr., Observations of Carbon Dioxide in the Atmosphere over the Western United States, <u>J. Geophys. Res.</u> (in press), 1968.
- 12. Kelley, J.J., Jr., Equilibrium Partial Pressure of CO₂ in the

 Kara, Bar:nts, and Norwegian Sess, <u>Progress Report</u>, AINA-ONR,

 Contract 401, Department of Atmospheric Sciences, University of

 Washington, Seattle, 1968.

APPENDIX 2

FORTRAN 4 COMPUTER PROGRAM

This program is designed for use on the IBM 7094 computer. Data for CO₂ from five sources of air are entered into the program for each half hour interval. The CO₂ index for each half hour interval is computed. Wind direction, wind speed, barometric pressure, and ambient air temperature are logged in the data output. A summary of the data is given for each day as follows:

Number of half hourly observations

Recorder Scale Factor

Mean Index 1

Mean Index 2

Mean Index 3

Mean Index 4

Mean Index 5

Mean Index all levels

Mean barometric pressure

Mean temperature, OC

Location of levels 1 through 5

INSTRUCTIONS FOR KEYPUNCHING DATA

1. The first data card has the form: three blank spaces, then the data of the day's run, e.g.:

____ 17 _ March _ 1965

Other data may also be placed on this card and will be reproduced in the

heading of the output just as printed on the card.

2. The second card contains the chart number (3 spaces), reference tank number (6 spaces), and the index (8 spaces)

For example, if chart number 12, reference tank, 11633, and the tank index, 310.68, are the data, then the card reads as follows:

0120116330310.680

3. Data Cards: There must be a total of forty-eight cards; i.e., one for each half hour of data even if data are missing for part of the time. The pressure, temperature, wind direction, and wind speed data must start on the first card. All data must start on the half-hour and alternate from there. For example:

Time	Ll	<u>L2</u>	<u>L3</u>	<u>L4</u>	L5	Press.	Temp.	Wind Dir.	
0030	2.93	7.82	10.63	15.72	2.93	130	13	1.029	0
0100	2.83	7.89	11.01	15.47	2.93	-	-	-	-

Cards read:

002.93007.82010.63015.72002.9310.29032.130013 002.83007.89011.01015.47002.8399.39

- 4. Missing Data:
- a) If more than one of the index values are missing, punch 99.99 in the first five columns. Then skip to column 31 and punch in the wind, temperature and pressure data on the half hour.
- b) If only one of the index values is missing, substitute an average value for the missing index value.

- c) If the pressure, temperature, and wind observations are missing for a particular half hour, punch 99.99 in columns 31-35.
 - 5. Program Format:

The Fortran-4 program and a specimen of the arrangement of the data for one day are given.

```
SJOB
               3,5,6000
                              2002650
$FORMS OU1
               PROGRAM,141326
$EXECUTE
               IBJOB
$1BJOB
               GO, MAP
SIBFTC COTWI
      CARBON DIOXIDE INDEX PROGRAM-SURMER 5 LEVEL VERSION(REVISED)
      DIMENSION SR(5,48),AI(5,48),KT(48),SDA(48),T(24),P(24),IWD(24),IWS
     1(24)
      FORMAT(13,16,F8.3)
 1
 2
      FORMAT(5F6.2,F5.2,F4.0,213)
      FORMAT(1H1,40X,38H DAILY CARBON DIOXIDE AIR INDEX VALUES/53X,15H B
 10
     LARROW, ALASKA/48X,26H NORTH MEADOW LAKE STATION//)
 11
      HC8)TAMNOT
 12
     FORMAT(19X,15H CHAPT NUMBER =13,15X,18H REFERENCE GAS W =16,8X,8H
     lINDEX =F9.3/)
                AST, 10X, 24H HALF HOURLY SCALE DIFF., 19X, 23H HALF HOUR
 13
     FORMAT(6H
     1Y INDEX, AIR, 13X, 35H WIND DIR SPEED PRESSURE
                                                        TEMP/10X,3H 1.,
     24X,3H 2.,4X,3H 3.,4X,3H 4.,4X,3H 5.,6X,3H 1.,7X,3H 2.,7X,3H 3.,7X,
     33H 4.,7X,3H 5.,4X,33H DEGREES
                                       KN.
                                                 BARS
                                                          c.)
    FORMAT(2X,14,1X,F7.2,F7.2,F7.2,F7.2,F7.2,4X,F8.3,2X,F8.3,2X,F8.3,2
     1X,F8.3,2X,F8.3,5X,13,6X,13X4X,F7.4,3X,F5.0)
 15
      FORMAT(2H I4,16H
                           DATA MISSING)
      FORMAT(//37HO NUMBER OF HALF HOURLY OBSERVATIONS=F4.0/25HO RECORDE
     1R SCALE FACTOR =F7.3/16H0 MEAN INDEX 1 = F8.3/16H0 MEAN INDEX 2 =F8
     2.3/16H0 MEAN INDEX 3 = F8.3/16H0 MEAN INDEX 4 = F8.3/16H0 MEAN INDEX
     3 5 = F8.3/28HO MEAN INDEX AT ALL LEVELS = F8.3/17HO MEAN PRESSURE =F
     47.1,10H MILLIBARS/20HO MEAN TEMPERATURE =F5.0,19H DEGREES CENTIGRA
     5DE/16H0 L1=16.0 METERS/15H0 L2=1.0 METERS/15H0 L3=0.5 METERS/16H0
     6L4=0.25 METERS/17H0 L5=0.125 METERS)
 17
      FORMAT(2H 14,16H
                          DATA MISSING, 77X, 13, 6X, 13, 4X, F7.4, 3X, F5.0)
 18
      FORMAT(1H1,114X,7H PAGE 2)
      RSF=1.720
      KJ.=C
      DO 50 J=1,48
      MJ =J
      IF(MOD(MJ,2))51,52,51
 51
      K1=K1+30
      KT(J)≈K1
      K1=K1+70
      GO TO 50
 52
      KT(J)=K1
 50
      CONTINUE
 200 ITR=0
      K1=0
      K2=0
      READ(5,11)
      READ(5,1) ICN, IRT, WRG
      DO 75 J=1,48
      K1=K1+1
      J1=J
      IF(MOD(J1,2))76,77,76
 76
      K2=K1-ITR
      READ(5,2)
                (SD(I,J),I=1,5),P(K2),T(K2),IWD(K2),IWS(K2)
      ITR=ITR+1
      GO TO 75
```

```
READ(5,2) (SD(I,J),I=1,5)
77
       CONTINUE
75
       DO 99 J=1,48
       SDA(J)=0.0
       DO 99 I=1,5
99
       AI(I,J)=0.0
       AV1=0.0
       AV2=0.0
       AV3=0.0
       AV4=0.0
       AV5=0:0
       DIN=0.0
       DO 100 J=1,48
       A=SD(1,J)
       IF(A-99.99)101,100,101
101
       DIN=DIN+1.0
       AV1=AV1+SD(1,J)
       AV2=AV2+SD(2,J)
       AV3=AV3+SD(3,J)
       AV4=AV4+SD(4,J)
       AV5=AV5+SD(5,J)
       CONTINUE
100
       AV1=AV1/DIN
       AV2=AV2/DIN
       AV3=AV3/DIN
       AV4=AV4/DIN
       AV5=AV5/DIN
       AV=0.0
       DO 102 J=1,48
       A=SD(1,J)
       IF(A-99.99)103,102,103
103
       S=0.0
       DO 104 I=1,5
        AI(I,J)=WRG+(SD(I,J)*RSF)
 104
        S=S+SD(I,J)
        SDA(J)=S/5.0
        AV=AV+SDA(J)
 102
        CONTINUE
        AV=AV/DIN
        AV1=WRG+(AV1*RSF)
        AV2=WRG+(AV2*RSF)
        AV3=WRG+(AV3*RSF)
        AV4=WRG+(AV4*RSF)
        AV5=WRG+(AV5*RSF)
        AV=WRG+(AV*RSF)
        DO 105 I=1,24
        T(I)=0.556*(T(I)-32.0)
        IF(P(I)-15.00)316.316,317
        P(I)=P(I)/10.3
 316
        GO TO 105
        P(I)=(33.864*P(I))/1000.0
 317
        CONTINUE
 105
        PA=0.0
        TA=0.0
        DIT=0.0
        DO 125 I=1,24
```

```
A=P(I)
       IF(K-99.99)126,125,126
126
       DIT=DIT+1.0
       PA=PA+P(I)
       TA=TA+T(I)
125
       CONTINUE
       PA=(PA*1000.)/DIT
       TA*TA/DIT
        WRITE(6,10)
        WRITE(6,11)
       WRITE(6,12) ICN, IRT, WRG
        WRITE(6,13)
       Kl=0
       D0 150 J=1.48
       A=SD(1,J)
        IF(A-99.99)151,152,151
152
       Jl=J
        IF(MOD(J1,2))155,156,155
155
        K12K1+1
        B=P(K1)
        IF(B-99.99)157,156,157
        WRITE(6,17) KT(J),IWD(K1),IWS(K1),P(K1),T(K1)
157
        GO TO 150
        WRITE(6,15) KT(J)
155
        GO TO 150
        J1±J
151
        IF(MOD(J1,2))153,154,153
 153
        K1=K1+1
        WRITE(6,14) KT(J),SD(1,J),SD(2,J),SD(3,J),SD(4,J),SD(5,J),AI(1,J),
       1AI(2,J),AI(3,J),AI(4,J),AI(5,J),IWD(K1),IWS(K1),P(K1),T(K1)
       GO TO 150
 154
        WRITE(6,14) KT(J),SD(1,J),SD(2,J),SD(3,J),SD(4,J),SD(5,J),AI(1,J),
       1A1(2,J),AI(3,J),AI(4,J),AI(5,J)
150
       CONTINUE
        WRITE(6,18),
        WRITE(6,11)
        WRITE(6,16) DIN,RSF,AV1,AV2,AV3,AV4,AV5,AV,PA,TA
        GO TO 200
         END
SENTRY
                 COTW1
SDATA
   1 MAY 1967
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002.93007.50011.05015.18002.9399.99
003.08007.61009.02015.72003.0810.29032.140011
002.90007.75010.98016.17002.9099.99
002.89008.09010.75016.78002.8910.29031.150010
0 2.89008.20010.87017.39002.8999.99
002.83008.57008.57017.88002.8310.28031.140011
002.93008.87011.23017.93002.9399.99
002,94008.91011.35018.29002.9410.28031.140009
002.88009.21011.13018.54002.8899.99
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